



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

### Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

### About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

*P. E. Walker*

2 45 0412 9794



LANE MEDICAL LIBRARY STANFORD

# BACTERIOLOGICAL



Pacific Micro Materials Co.

432 MONTGOMERY STREET,  
SAN FRANCISCO, CAL.



671  
B35  
1900

# APPARATUS

**LANE**

**MEDICAL**



**LIBRARY**

*Gift*  
*Dr. Ray Lyman Wilbur*

AMERICAN BANK NOTE CO. LITHO





## ...ERRATA...

PAGE.

20. Fig. No. 6038-6040 should be No. 6038-6039.
29. Code Word for No. 6076 should be Ruvoair.
31. No. 8016. Prices for A and B should be 25c. and 30c. respectively
41. Prices of the following should be:
 

No. 1206.....	\$10 95.	No. 1208.....	\$ 3 80.
No. 1210.....	10 95.	No. 1212.....	3 80.
No. 1214.....	15 15.		
No. 1216.....	6 30.	No. 1218.....	32.
42. No. 1220 should be No. 1222; and the price is 85c.
46. Fig. No. 8409 should be No. 8409 B. Price 50c. (Omitted).
47. Price of Burner No. 8418 is 75c.  
Price of Burner No. 8420 is \$1.00.
59. Prices of Cover Glasses are as follows:
 

No. 1272.....	\$1 50 per ounce.
No. 1274.....	1 25 " "
No. 1276.....	1 00 " "
No. 1278.....	1 25 " "
No. 1280.....	1 00 " "
No. 1282.....	75 " "
59. Price of No. 1288 a, should be \$1.05.
60. Prices of Object Slides are as follows:
 

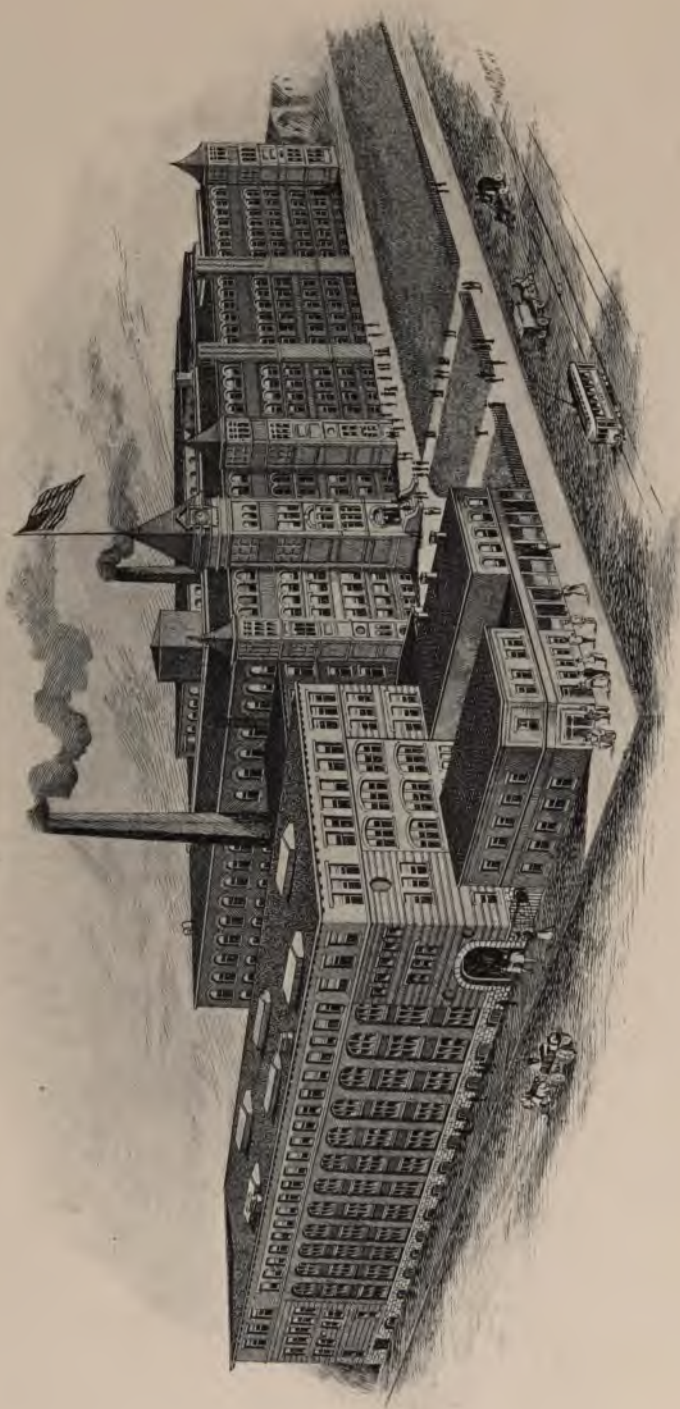
No. 1290.....	\$1 00 per gross.
No. 1292.....	1 15 " "
No. 1298.....	1 25 " "
No. 1300.....	1 50 " "
60. Price of No. 1340 should be 35c.
61. No. 6290 should be 2090, with Code Word Rumtad.
65. Fig. No. 1384 should be No. 1402.
74. Price of No. 1590 is 20c.
74. Cancel item No. 1592.
77. Price of Dissecting Set No. 1606 is \$3.50. No. 1610 is \$4.50.
78. " " " " 1614 is \$8.00.
82. Prices of Gauze No. 9838 are as follows:
 

A. \$ 60 per 30 cm. square.
B. 75 " " "
C. 1 00 " " "
D. 1 25 " " "
95. Diameter of No. 9210 E is 170 mm.
96. Diameter of No. 9224 C is 240 mm.
100. Price of No. 9346 C is \$1.75.
102. Dimensions of all Museum Jars No. 6476 should read cm., instead of mm.
103. No. 6482. "Diam. lower dish, mm.," should read "Height lower dish, mm."
114. Price of No. 9656 is 30c.
114. Code Word for No. 9664 should be Vexora.
120. Fig. No. 9816 B should be 9816 A.
125. Price of No. 9896 is \$1.00.
136. The right figure No. 10106 should be No. 10112.
144. Prices of Triangles No. 10270, A, B and C are 50c. per 10 respectively.
144. Prices of Triangles No. 10272, A, B and C are 75c. per 10 respectively.
154. Price of No. 2822 is \$3.00.









MANUFACTORY OF BAUSCH & LOMB OPTICAL COMPANY.

Floor space, 138,000 square feet, 1899.

# BACTERIOLOGICAL APPARATUS



**BAUSCH & LOMB OPTICAL CO.**

ROCHESTER, N. Y.

MAIN OFFICE AND MANUFACTORY, 515-547 ST. PAUL STREET

NEW YORK BRANCH:  
TOWNSEND BUILDING  
BROADWAY AND 25TH ST.

CHICAGO BRANCH:  
STEWART BUILDING  
STATE AND WASHINGTON STS.

August, 1900

**Catalogue E**

MP

*Copyrighted 1900*

**BAUSCH & LOMB OPTICAL CO.**

**ROCHESTER, N. Y.**

*The Genesee Press  
The Post Express Printing Co  
Rochester N.Y.*

VIA RAIL MAIL

## INTRODUCTION



THIS catalogue contains an assortment of Bacteriological Apparatus sufficiently complete to meet nearly all requirements of laboratories, public and private, and of individuals engaged in this line of work. Microscopes and other apparatus are described in our other catalogues. The wants of American institutions having been our constant study, and having accepted all suggestions made to us which were in harmony with general practice, our goods have become the American standard. We acknowledge with pleasure our obligations to the many men of science who have, by their kindly criticisms and trials, aided us in thus advancing the construction of our apparatus.

We were the first to manufacture incubators, sterilizers, autoclavs and water-baths in this country and the general features of our designs have remained unchanged, but numerous details have been improved to insure greater usefulness and increased safety; and it is gratifying to find that with over

### 2000 Instruments in Constant Use

no serious defects have been found.

We believe this is due to the care taken in their manufacture, as parts which are subjected to great strain are given additional strength and those in which high pressures are employed are made of seamless shells; also to the rigid inspection which all our apparatus undergoes. All tests are made under forced conditions.

Our guarantee accompanies each apparatus.

Bacteriological glassware of the best quality has been selected, yet we have been able to keep the cost within the limits required by modern laboratory conditions. The fact that quantities of our goods are now in daily use in laboratories throughout the country is the best evidence that they meet the requirements well.

Educational institutions entitled to free entry of foreign goods, desiring to avail themselves of the saving which may be effected by importing certain lines of bacteriological supplies free of duty, are assured of the lowest rates and the best service when orders are entrusted to us, as our direct purchasing connections and extensive dealings with the leading European manufacturers give us facilities for purchasing at lowest rates and handling such importations to the best possible advantage of the purchaser.



We issue the following publications :

### CATALOGUES

(Mailed post free to interested persons on request.)

- A Microscopes and Accessories
- B Microtomes and Apparatus for Microtomy
- C Photo-Micrographic Apparatus
- D Projection Lanterns, Accessories, and Lantern Slides
- E Bacteriological Apparatus
- F Chemical Apparatus
- G Chemicals and Reagents
- H Photographic Lenses, Shutters, and Accessories
- Bausch & Lomb-Zeiss Stereo Binocular Field Glasses
- Centrifugal Blood and Urine Analysis

### JOURNAL OF APPLIED MICROSCOPY

(MONTHLY)

Devoted exclusively to the practical application of the microscope to the various sciences and industries. It has departments devoted to Bacteriology, Laboratory Photography, and other branches of microscopical science, in which methods, apparatus and materials for practical work are described. Original papers on technique and reviews of contemporary literature in various languages are published.

Subscription, \$1.00 per year in advance ; \$1.25, foreign ; single copies, 10 cents each.

Electrotypes used in any of our publications are placed at the disposal of authors without charge.

	<b>TERMS</b>	
--	--------------	--

**To avoid delay**, the full catalogue designation of each article, and complete shipping directions should be given. In the absence of the latter we will use our judgment to secure for the customer the lowest rates of carriage.

**Parties unknown to us** will please send cash with order; or, if desiring to open an account, they will please give such information and references as will enable us to establish their financial standing.

**Checks** drawn on banks elsewhere than in New York, Boston or Philadelphia, are subject to collection charges of fifteen cents for amounts less than one hundred dollars, and of one-eighth of one per cent. for amounts of one hundred dollars and over, which should be added to the amount of the check.

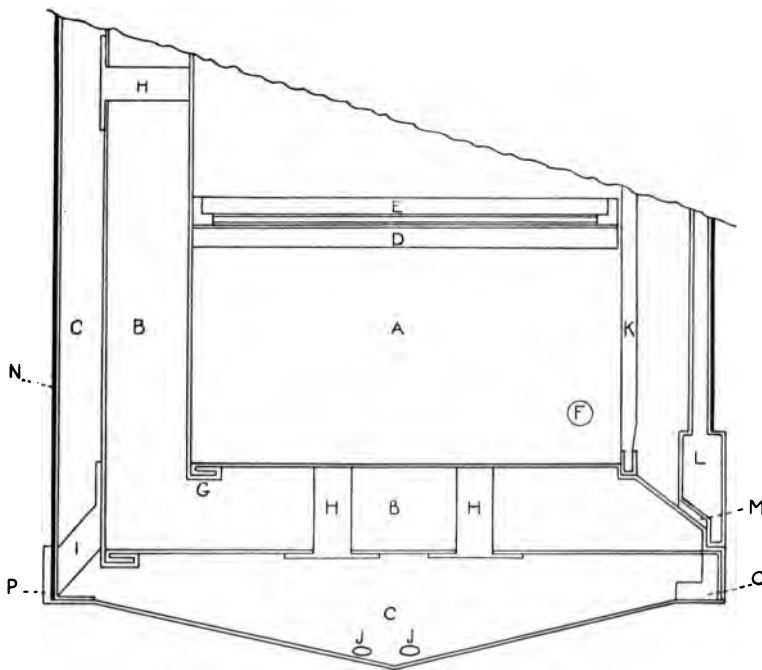
**Packing.**—All goods are sent in containers of sufficient strength, and are packed to insure safety in transit. On account of the bulky nature of glassware, the actual cost of packing is charged.

**Liability.**—Goods sent by mail are at purchaser's risk. We assume the responsibility for damage on express shipments, excepting glassware, during transportation.

**Unless insured**, no responsibility will be taken on freight shipments. Our responsibility ceases when goods have been delivered to the railroad company in good order and a receipt taken. Consignments may be insured against damage at the rate of three per cent. of the net amount of the invoice.

## CONSTRUCTION

**Bausch & Lomb Laboratory Incubators.**—The design of the *Bausch & Lomb Laboratory Incubators* is based on an extensive comparative study of American requirements and methods of bacteriological work, resulting in the adoption of a rectangular form, the most durable material—copper, and the following construction :



In the above diagram of a vertical section of the lower part of our Laboratory Incubator, taken medianly from front to back, the copper incubating chamber *A* is enclosed by a second wall of copper, making a water space *B*. Braces *H* tie the two walls together and prevent their bulging.

This internal portion is supported on an outer iron shell *N* by braces *I* and *O*, leaving an air chamber *C*, which extends entirely around the water space, except where doors *L* and *K* are located. On the bottom, the form shown serves to drain the condensation to the hottest point, where it is quickly evaporated and not allowed to drip on the burner to extinguish the flame. Hot air enters *C* through apertures *J* and can be controlled through a regulator if desired, but neither directly heated air nor the products of combustion can enter the incubating chamber.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Construction

The walls are plain ; other forms, intended to aid in the distribution of heat, having been found to be of no practical advantage. Seams *G* strengthen the corners which would otherwise be weak. Trays *E*, made of copper and woven-wire centers, are supported in the incubating chamber by copper brackets *D*. Fresh air is admitted to the chamber by a tube *F*, which passes through the water space. The inner door *K* is of glass and the outer one *L* is solid. A felt buffing renders the prismatic edges of the outer door air-tight. The external covering is a non-conductor of heat, is easily washed and requires no enameling. It is bound on the edges by copper trimmings *P*, which are polished and lacquered. Hinges and latches are made strong and serviceable.

**Bausch & Lomb Laboratory Sterilizers.**—The sheet iron used in the Hot Air Sterilizers is of the best quality and of sufficient weight to give strength to the apparatus. The walls are double, well seamed and re-enforced by riveted pieces at the edges. This extra thickness of metal gives the proper strength for bolting on the hinges and catch of the door. Brackets are riveted to the sides of the sterilizing chamber, supporting perforated iron trays. An inlet pipe supplies fresh air to the chamber. To protect the chamber from the direct heat of the flame an air chamber is intervened. The bottom is flat, with a large aperture in the center for admission of heated air, which circulates between the walls and through the interior of the door by perforations which are perfectly matched by smaller ones on the beveled edges against which the prismatic inner surface of the door closes. A covering of non-conducting material is placed over the outer wall of the larger sizes and bound in a serviceable manner.

Our Steam Sterilizer of cylindrical shape made after Koch's design, and the one designated as "Physician's," are made of heavy copper throughout. The walls are single; Koch's has a partition for the support of a container; in the Physician's there is a ring which prevents the plugs of the tubes, supported in a perforated rack, from touching the sides of the chamber.

The Arnold Sterilizers are constructed of heavy tin, and of copper. Those made of tin have copper bottoms. Several patterns constructed on the same principle are offered. The sterilizing chamber is supported over an open base, in the center of which is a steam generating chamber. About the sterilizing chamber is a jacketed space built permanently on the apparatus or made by placing a cover over it.

**Bausch & Lomb Autoclav.**—The boiler of our Autoclav is made of one piece of copper drawn under heavy pressure to the shape required. The cover is hinged and made from a casting of brass. A packed joint is used, which is superior to other forms. Each valve connection is independent of the other. The apparatus is made without jacket and is supported on an enclosed base containing a fixed ring burner.

**Repairs.**—Should any repairs be necessary through accident to any of the apparatus herein listed, they can be made quickly and with the least expense by returning to us. The importance of this will be appreciated by those who have purchased apparatus of foreign manufacture.



## Bausch & Lomb Laboratory Incubators



No. 6000.

LABORATORY INCUBATOR.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Laboratory Incubators

**Incubator, Laboratory.** This is the largest incubator we regularly manufacture and carry in stock. It has a capacity\* of twenty-seven test-tube baskets, an incubating chamber that is 45 cm. wide, 35 cm. deep, and 70 cm. high, in which five brackets have been arranged for the support of the trays so that the distance between them may be either one-third or one-fourth of the height.

The surface of the chamber is stamped in panel design and highly polished. A tubulation for thermometer enters the chamber. The glass door is of beveled plate glass with ground border ornamentation. In the top of the chamber is a ventilating aperture.

Delicate control of the temperature is effected by a ventilating strip on the top which opens into the air-space. Tubulations into the water space for thermo-regulator and for filling are provided and properly marked.

As the doors are tight-fitting, an absolute steadiness of temperature is assured, which is of special importance when growing cultures of bacteria whose maximum and minimum temperatures are within a few degrees of each other. For connecting with gas supply, a metal pipe passes through the wall space from near the thermo-regulator tubulation to the under side of the incubator.

The incubator proper is supported on an iron framework having a sheet-iron chamber enclosing a double Koch safety burner, which is attached to the base and connected by a union-joint to the pipe just mentioned.

A glass-tube water-gauge which is open at the top and a double-way stop-cock connect with the water-space. One branch of the stop-cock shuts off the escape of water in case of accident to the glass tube.

The door of the base has a mica window for observation of the flame. The sheet iron is stamped and finished in a dull black.

The apparatus is substantial without being bulky, and is compact and efficient. It represents the type of our Laboratory Incubators. Outside dimensions: 63 cm. wide, 49 cm. deep, and 85 cm. high (exclusive of support); height of support, 67 cm.

Telegraphic Code.	Catalogue Number.	Price.
Vaba	6000	Complete with burner, thermometer, and thermo-regulator, - - - - - \$150 00

\*The sizes of our Laboratory Incubators are based on their capacity in test-tube baskets, size 12.5 x 10 x 15 centimeters. (Catalogue Number 6190.)

## Laboratory Incubators



No. 6006.

### LABORATORY INCUBATOR.

**Incubator, Laboratory.** The same weight of copper is used for this incubator as in the preceding size. Its incubating chamber holds 18 test-tube baskets and is 45 cm. wide, 35 cm. deep, and 48 cm. high. There are three brackets for the support of trays, of which two are furnished.

The arrangement of the connections to chamber, burner and outside air, and the facilities for examining and maintaining the temperature of the chamber are the same as described for No. 6000.

Either the high supporting base previously described or a low sheet iron base built over a metal framework will be supplied with this incubator. A double Koch safety burner is included in the base. Outside dimensions: 63 cm. wide, 49 cm. deep, and 62 cm. high, exclusive of base; height of high base, 67 cm., of low base, 27 cm.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vabel</i>	6002	Complete with burner, thermometer, thermo-regulator and high base, - - - - -	\$130 00
<i>Vabger</i>	6004	Above incubator and accessories with low base in place of high base, - - - - -	120 00

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Laboratory Incubators



No. 6010.

### LABORATORY INCUBATOR.

**Incubator, Laboratory.** The capacity of the incubating chamber is twelve test-tube baskets, the space measuring 45 cm. wide x 24 cm. deep x 48 cm. high. Three brackets are arranged so that either one-third or one-half of the height is available above or below a tray. Two trays are furnished. The low base enclosing a large single Koch safety burner is regularly supplied. Outside dimensions: 63 cm. wide, 36 cm. deep, and 62 cm. high, exclusive of base; height of low base, 27 cm.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vabibo</i>	6006	Complete with burner, thermometer, and thermo-regulator, - - - - -	\$100 00
		High base in place of low base, extra, - - -	10 00

**Incubator, Laboratory.** Eight test-tube baskets may be contained in the incubating chamber, which is 30 cm. wide, 24 cm. deep, and 48 cm. high. Two trays may be supported at different heights in the chamber. A medium size Koch safety burner is enclosed by a low base. Outside dimensions: 47 cm. wide, 36 cm. deep, and 65 cm. high, exclusive of base; height of low base, 27 cm.

<i>Vabling</i>	6008	Complete with burner, thermometer, and thermo-regulator, - - - - -	75 00
		High base in place of low base, extra, - - -	8 00

BRANCHES: NEW YORK CITY AND CHICAGO.



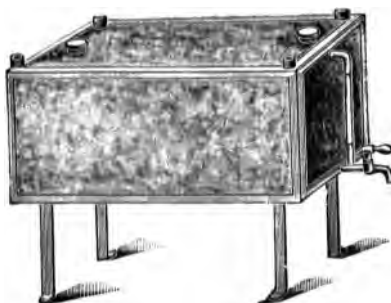
## Laboratory and Koch's Incubators

**Incubator, Laboratory.** This has proven a popular size for small laboratories and individual use. It is the smallest size having the inner glass door. Capacity: four test-tube baskets. The incubating chamber is 30 cm. wide, 24 cm. deep and 24 cm. high, and has a tray supported at a convenient height. A medium size Koch safety burner is supported within the low base. Outside dimensions: 47 cm. wide, 37 cm. deep, and 40 cm. high, exclusive of base. Height of base, 27 cm.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vabmos</i>	6010	Complete with burner, thermometer and thermo-regulator, - - - - -	\$50 00

**Incubator, Laboratory.** This incubator stands between the preceding sizes and the Physician's Incubator in usefulness. It holds two test-tube baskets and conforms in construction with those previously described except that the inner door of glass is omitted. A small Koch safety burner is furnished. The size of the incubating chamber is 24 cm. wide, 16.5 cm. deep, and 16.5 cm. high. A single tray is supported within the chamber. The outside dimensions are: 30 cm. wide, 29 cm. deep, and 40 cm. high, exclusive of base. Height of base, 27 cm.

<i>Vabor</i>	6012	Complete with burner, thermometer and thermo-regulator, - - - - -	35 00
--------------	------	---	-------



No. 6020.

KOCH'S INCUBATOR.

**Incubator, Koch's.** This incubator has double lids; the inner one is of glass for observation of contents without exposing them to the outside air. The incubator is double walled and made of copper, which is tin-lined, and covered on the outside with a non-conducting and water-proof material. Tubulations for thermometer, thermo-regulator and filling are provided; also water-gauge, stop-cock and an enclosed base (not shown in illustration). Inside dimensions: 42 cm. long, 23 cm. wide, and 18 cm. deep.

<i>Vabsting</i>	6020	Complete with burner, thermometer, thermo-regulator, and asbestos mat, - - - - -	25 00
-----------------	------	--	-------

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Physician's Incubator and Hot-air Sterilizers

**Incubator, Physician's.** The physician and others requiring an incubator in which to make a few cultures at a time will find this a convenient form and size. The incubating chamber is 32 cm. deep, and 20 cm. in diameter. The incubator is double walled and covered with a neat covering that is easily washed and requires no enameling. Tubulations for thermometer and thermo-regulator are provided, also water gauge and stop-cock. The enclosed base is of sheet iron.



Telegraphic Code.	Catalogue Number.		Price.
<i>Vabted</i>	6022	Incubator with base only, - - -	\$13 00
<i>Vabuet</i>	6023	Thermometer, thermo-regulator, burner and asbestos mat, extra,	4 75

No. 6022.

PHYSICIAN'S INCUBATOR.

## Bausch & Lomb Laboratory Sterilizers



No. 6024.

LABORATORY HOT-AIR STERILIZER.

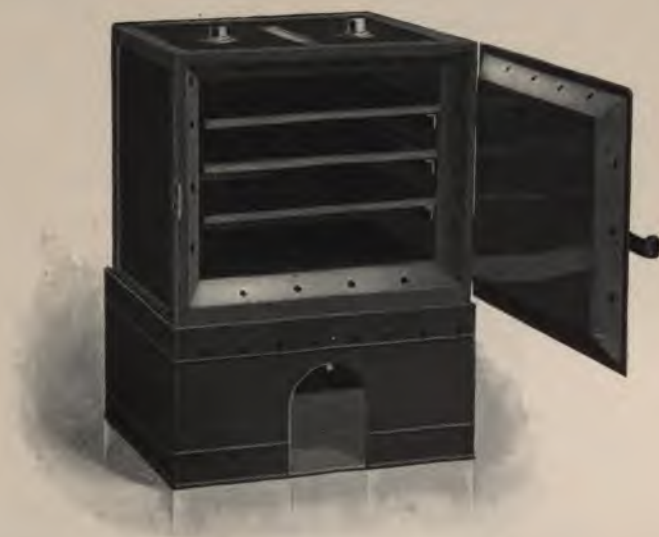
Large Size.

BRANCHES: NEW YORK CITY AND CHICAGO.

## Hot-air Sterilizers

**Sterilizer, Hot-air, Large Size.** This apparatus is offered as the most complete form of hot-air sterilizer. As shown by the illustration, it is large and roomy and has three shelves. The heating arrangement consists of a series of small Bunsen burners which distribute the heat evenly over the bottom surface. The front of the base is closed by a door. Heat radiation is prevented by suitable covering. The apparatus is built of the best materials throughout. Inside dimensions: 48 cm. high, 30 cm. wide, and 24 cm. deep.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vacdel</i>	6024	Complete with thermometer, thermo-regulator and asbestos mat, - - - - -	\$30 00



No. 6025.

LABORATORY HOT-AIR STERILIZER.  
Medium Size.

**Sterilizer, Hot-air, Medium size.** This sterilizer is of the same width and depth as No. 6024 and is also covered with a non-conducting material that makes the apparatus economical in the use of the heat applied and enables a uniform temperature to be maintained. There are two shelves. The material is the best quality sheet iron. Inside dimensions: 24 cm. high, 30 cm. wide and 24 cm. deep.

<i>Vaccer</i>	6025	Complete with thermometer, thermo-regulator, burner and asbestos mat, - - - - -	22 00
---------------	------	--	-------

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Hot-air Sterilizers



No. 6026.

PHYSICIAN'S HOT-AIR STERILIZER.

**Sterilizer, Hot-air, Physician's.** This apparatus fulfills all requirements of the physician for hot-air sterilization. It has double walls, ample circulation about the chamber, serviceable surface where heat is applied, tubulations which enter the air chamber, and ventilating strip on the top. The material of both sterilizer and base is sheet iron. Inside dimensions: 24 cm. high, 22 cm. wide, 15 cm. deep.

Telegraphic Code.	Catalogue Number.	Price.
<i>Vacdix</i>	6026	Complete with thermometer, thermo-regulator, burner and asbestos mat, - - - - \$15 00

ANCHES: NEW YORK CITY AND CHICAGO.



## Bausch & Lomb Steam Sterilizers



No. 6028.

KOCH'S STEAM STERILIZER.



No. 6030.

PHYSICIAN'S STEAM STERILIZER.

**Sterilizer, Steam, Koch's.** The sterilizing chamber of this apparatus is arranged so that the articles or substances to be sterilized are placed in a receiver over the steam generating chamber. This arrangement makes the apparatus specially suitable for the sterilization of nutrient media, and for filtrating substances such as agar agar, as the funnel and receptacle for the substance may be placed inside during filtration.

It is made entirely of copper, covered with a non-conducting material, and provided with water gauge and stop-cock, and tubulations for thermometer. Inside dimensions: 21.5 cm. diameter, 53 cm. deep.

Telegraphic Code.	Catalogue Number.	Price.
<i>Vacfer</i>	6028	Complete with thermometer, burner, and enclosed base (not illustrated), - - - - - \$20 00

**Sterilizer, Steam, Physician's.** This sterilizer has two chambers, one above the other, and separated by a removable, perforated partition upon which the articles to be sterilized are placed. A ring extending around the inner surface of the cylinder prevents the saturation of cotton plugs of tubes by condensation from the sides of the chamber. It is made of copper with base of sheet iron (not shown in illustration). Inside dimensions of chamber: depth, 30 cm.; diameter, 20 cm.

<i>Vachem</i>	6030	Complete, with thermometer and burner, - - - - - 6 00
---------------	------	---

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Steam Sterilizers



Nos. 6032-6034.

### ARNOLD STEAM STERILIZER.

Round form with side door.

**Sterilizer, Steam, Arnold.** This improved style of round form with side door will, we believe, be appreciated for its greater compactness and convenience. The Arnold sterilizers need no description, as they are to be found in almost every institution requiring such apparatus. Suffice it to say that they are efficient, economical, correct in principle, and will maintain a constant temperature of  $100^{\circ}$  C. in all parts of the sterilizing chamber without any care. The principal feature of the construction of the interior is the small quantity of water heated at a time in the shallow portion of the base. They are quick-starting and of continuous action.

The above applies to all the forms of Arnold sterilizers listed below.

Telegraphic  
Code.

Catalogue  
Number.

*Vacin* 6032 Of heavy tin, and copper bottom.

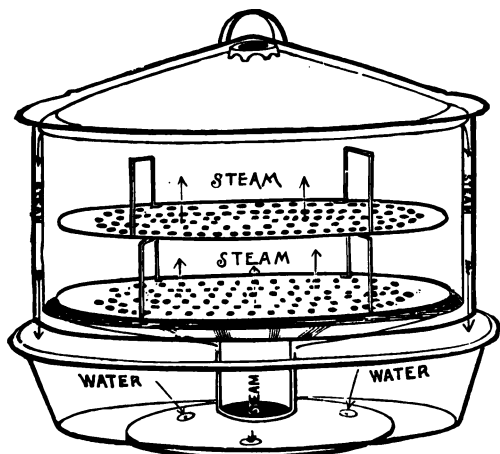
		A	B	C	D
Sterilizing chamber:	{ Diam., cm.	21.5	23.5	26.5	28.5
	{ Height, cm.	18.5	25.5	29.0	31.0
Each,	- - - - -	\$3 25	3 75	4 25	4 75

*Vackler* 6034 Of copper throughout.

		A	B	C	D
Sterilizing chamber:	{ Diam., cm.	21.5	23.5	26.5	28.5
	{ Height, cm.	18.5	25.5	29.0	31.0
Each,	- - - - -	\$8 00	9 00	10 00	11 00

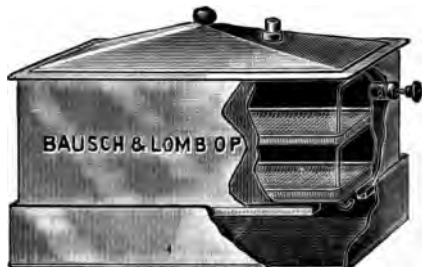
BRANCHES: NEW YORK CITY AND CHICAGO.

# **Steam Sterilizers**



Nos. 6038-6040.

**ARNOLD STEAM STERILIZER.**  
Oval Form.



Nos. 6040-6042.

**ARNOLD STEAM STERILIZER.**  
For Surgical Instruments.

**Sterilizer, Steam, Arnold.** The oval shape is a very convenient form for dissecting instruments. Two perforated racks are regularly supplied. If preferred, a zinc tray for holding solutions will be substituted for one of the racks. The principle and construction is the same as the round form, with the exception that it is not equipped with side door.

Telegraphic Code.	Catalogue Number.		A	B	C
<i>Vacling</i>	6038	Of heavy tin, and copper bottom.			
		Sterilizing chamber: {			
		Height, cm.,	15	17	20
		Length, cm.,	36	41	46
		Width, cm.,	23	27	30
		Each, - - - - -	\$5 00	6 00	7 00
<i>Vacmary</i>	6039	Of copper throughout.	A	B	C
		Sterilizing chamber: {			
		Height, cm.,	15	17	20
		Length, cm.,	36	41	46
		Width, cm.,	23	27	30
		Each, - - - - -	\$12 50	15 00	17 50

**Sterilizer, Steam and Hot-air, Arnold.** A combination and portable sterilizer in which instruments, etc., may be subjected to both dry heat and steam; *e.g.*, the contents may be heated up by hot air to about 100° C, then steam may be admitted to the chamber (from the top) by simply turning the valve shown in illustration, and after sterilization the contents may be dried off by dry heat. The steam as it escapes from the chamber passes into the base. A tubulation for thermometer is provided.

<i>Vacmest</i>	6040	Of copper throughout.	A	B	C
		Sterilizing chamber: {			
		Depth, cm.,	15	18	20
		Width, cm.,	15	17	19
		Length, cm.,	36	41	47
		Each, - - - - -	\$12 50	15 00	17 50
<i>Vacmito</i>	6042	Tin, with copper bottom.	A	B	C
		Sterilizing chamber: {			
		Depth, cm.,	15	18	20
		Width, cm.,	15	17	19
		Length, cm.,	36	41	47
		Each, - - - - -	\$5 00	6 00	7 00

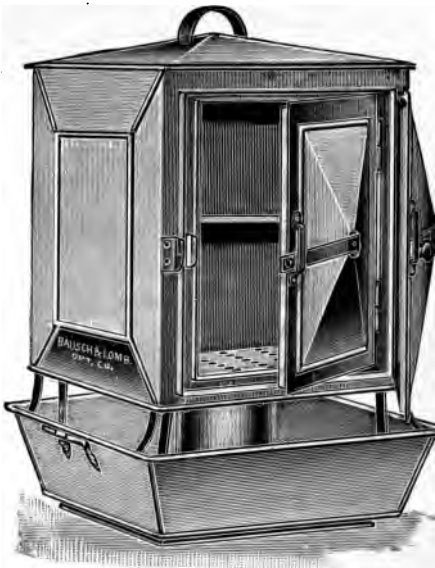
BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# **Steam Sterilizers**



Nos. 6044-6046.

ARNOLD STEAM STERILIZER.  
Rectangular Form.



No. 6048.

ARNOLD STEAM STERILIZER.  
Recommended by the Boston  
Board of Health.

**Sterilizer, Steam, Arnold.** This rectangular form is very compact ; it has two wire-cloth racks, one of which is adapted for holding instruments, the other is made of a closer woven wire-cloth so as to hold small articles. If preferred, a zinc tray will be substituted for one of the racks.

Telegraphic Code.	Catalogue Number.				
<i>Vacnion</i>	6044	Of heavy tin, and copper bottom.			
Sterilizing chamber:		A	B	C	
		Height, cm.,	15	17	20
		Length, cm.,	36	41	46
		Width, cm.,	15	17	19
Each,	- - - - -		\$5 00	6 00	7 00
<i>Vacople</i>	6046	Of copper throughout.			
Sterilizing chamber:		A	B	C	
		Height, cm.,	15	17	20
		Length, cm.,	36	41	46
		Width, cm.,	15	17	19
Each,	- - - - -		\$12 50	15 00	17 50

**Sterilizer, Steam, Arnold.** This form of sterilizer has been adopted by the Boston Board of Health. The square form and large door make it very convenient for laboratory work. It is made of copper throughout. The construction is upon the same principle as the preceding Arnold apparatus. Dimensions: 32 cm. wide, 32 cm. deep, and 41 cm. high.

<i>Vacpobe</i>	6048	Each,	-	-	-	-	-	-	\$30 00
----------------	------	-------	---	---	---	---	---	---	---------

Steam Sterilizers—Autoclav



No. 6050.  
AUTOCLAV.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# Bausch & Lomb Autoclav or Digestor

For steam sterilization at high temperatures. Since the more resistant spores require a higher temperature than can be obtained in steam at ordinary atmospheric pressure, and since superheated steam is no more effective than the corresponding degree of dry heat, this apparatus has been devised to give saturated steam at the high temperature required. It has been constructed on the relation of pressure to temperature, and is provided with a pressure gauge which reads to thirty pounds pressure per square inch above that of the atmosphere. Higher pressures may be used if desired, as the apparatus is tested beyond the gauge pressure. A pressure of 30 pounds to the square inch on the gauge corresponds to a temperature of 134.6 degrees Centigrade, which is more than sufficient for such use. A thermometer is provided so that the temperature may be ascertained independently of the pressure.

The articles or their containers are placed on a low perforated frame in the apparatus.

The boiler is made entirely of one piece of copper, hence there are no seams on the sides or bottom. None of the valves are attached to the boiler, and there are no joints or connections to leak.

Thermometer, pressure gauge, and the valves for the escape of air and steam (when used as an ordinary steam sterilizer) are connected independently to the interior through the lid. The safety valve may be set to operate at any desired point.

The cover is of cast brass, hinged and fastened steam-tight by clamps, with packing of vulcanized material.

The apparatus is made without jacket; the inside surface of the lid is tinned, and the exterior has an aluminum finish. The clamps, the number of which vary with the sizes, are of improved construction. The base is of sheet-iron over an iron framework.

A ring Bunsen burner is permanently fixed to the base, making the apparatus complete.

The polished sides of the copper boiler and the aluminum-finished top give the apparatus a neat appearance.

Telegraphic Code.	Catalogue Number.			A	B	C
<i>Vacter</i>	6050	Inside height of boiler } exclusive of cover, cm., }	-	30	50	66
		Inside diameter, cm.,	-	20	25	33
		Each, - - - -		\$50 00	65 00	80 00

## Bausch & Lomb Water Baths and Drying Ovens



No. 2184.

LABORATORY WATER BATH.

**Water Bath, Laboratory.** This bath is intended for general use in the laboratory. It is arranged so that a number of students may individually carry on their own work simultaneously and obtain the necessary imbedding material from a common stock receptacle. There are ten large-sized cups, of which seven are deep and three shallow, and five large-sized glass vials for infiltration work. An alcohol lamp will furnish sufficient heat, when gas is not available.

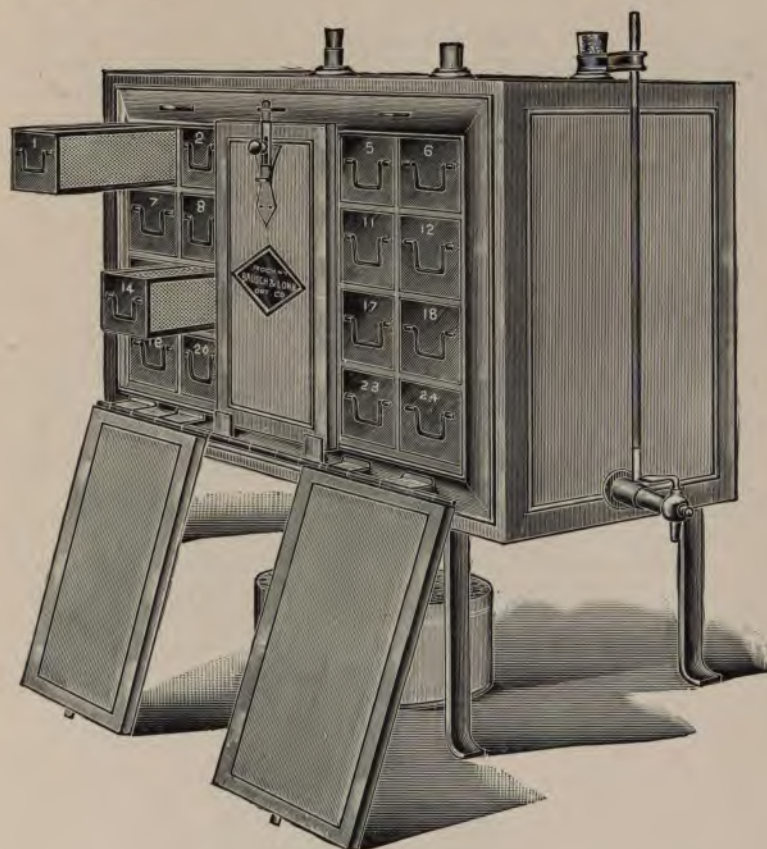
It is constructed entirely of copper, and has a false sheet-iron bottom, a closed base, open-end water gauge, and tubulations for thermometer and thermo-regulator. Size of water chamber, 31.5 cm. diameter, 9 cm. deep. The base is 20 cm. high.

Telegraphic Code.	Catalogue Number.	Price.
<i>Rutlab</i>	2184	Complete, with thermometer, thermo-regulator, gas burner and asbestos mat, - - - - \$20 00

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.



## Water Baths



No. 2180 c.

LILLIE'S WATER BATH.

**Water Bath, Lillie.** This bath is constructed after specifications of Dr. F. R. Lillie of the University of Michigan, and is the most complete water-bath for general laboratory work offered. A greater variety and a larger amount of imbedding and allied processes, can be carried on in it at the same time than in any other. It consists of a large chamber in which a number of rectangular drawers are arranged in series. Individuals may work independently by using one or more drawers, and prepare imbedding material, carry on infiltration, or do imbedding in a single drawer if desired.

Copper is used for the front and bottom of the drawers as well as the bath proper. The sides of the drawers are made of zinc and perforated. The drawers have cross partitions, and are free from lateral support, which allows a circulation of heat through their perforated sides and from top to bottom of the chamber. Each drawer is numbered and provided with a wire drop handle; they are 25 cm. long, 10 cm. wide, and 8 cm. deep. Various dishes may be used in them; Prof. S. H. Gage recommends\* for infiltrating tissues in paraffin a basket made of tinned and burnished copper with a strip of copper for a handle. Eight of these, of a proper size, may be used in a drawer.

\*Journal of Applied Microscopy, Vol. II, p. 265, Feb. '99.



# **Water Baths**

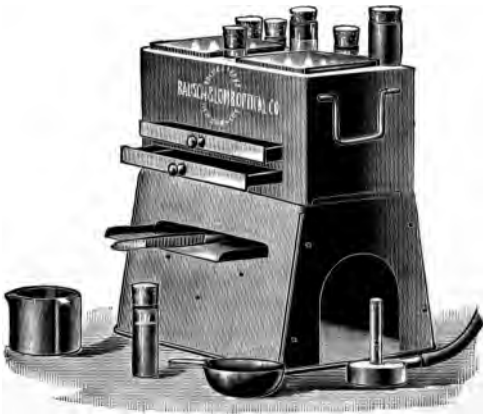
The exterior of the bath is covered with a non-conducting and water-proof material, which requires no enameling. The bath is supported on a heavy wrought-iron base enclosed with sheet-iron (not shown in cut) and has an intervening false bottom of sheet-iron. One door exposes two tiers of drawers. An open-end water gauge with stop-cock, tubulations for thermometer and thermo-regulator, and emptying stop-cock are provided.

The three sizes contain respectively 16,000, 32,000 and 48,000 cu. cm. space in the drawers, and are furnished complete with thermometer, thermo-regulator, and gas burner.

Telegraphic Code.	Catalogue Number.		A	B	C
<i>Rutar</i>	2180	Number of tiers, . . . .	2	4	6
		Number of trays, . . . .	8	16	24
		Width (inside) cm., . . . .	23	46	67
		Height (inside) cm., . . . .	36	36	36
		Depth (inside) cm., . . . .	27	27	27
		Each, . . . . .	\$65 00	82 00	100 00

**Oil Heater** for Lillie's Water Bath. Sufficient oil to last several days is held by the reservoir of this heater, which has a large burner with metal chimney and a perforated false top, forming a safety air chamber above the reservoir and preventing it over heating. The reservoir is made of heavy copper. This heater will maintain a uniform temperature and is suitable for use when the most delicate imbedding is to be done.

<i>Rutil</i>	2182	Each, . . . . .	\$7 50
--------------	------	-----------------	--------



No. 2186.

## **MILLER'S WATER BATH.**

**Water Bath, Miller's.** This bath is a most desirable one for individual use, especially in histology, as it is arranged for a variety of work.

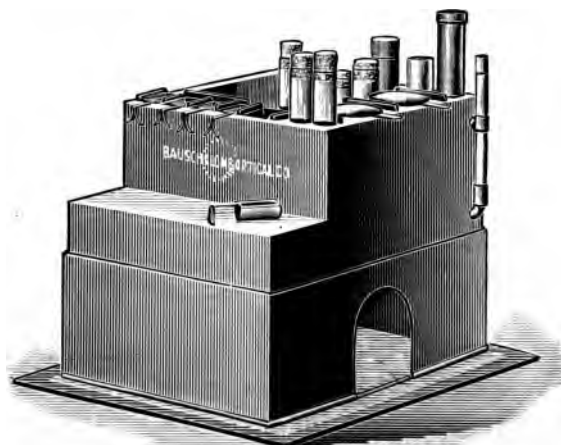
It was designed by Dr. W. S. Miller of the University of Wisconsin for such use in the histological laboratory, and has two imbedding cups, five infiltration vials, two drawers each capable of holding six slides protected from dust and for watch-glass imbedding, and a shelf for warming instruments. One of the cups is watch-glass shaped and is very useful for imbedding embryological material.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Water Baths

The bath is made of copper with a false bottom of sheet iron and an enclosed base of the same material. Size of cups: 45 mm. deep, 55 mm. diam., and 18 mm deep, 65 mm. diam. Water chamber: 20 cm. long, 10 cm. wide, and 10 cm. deep. Base: 11.5 cm. high.

Telegraphic Code.	Catalogue Number.		Price.
<i>Rutmel</i>	2186	Complete, with thermometer, thermo-regulator, burner and asbestos mat, - - - - -	\$15 00



No. 2188.

### NAPLES WATER BATH.

**Water Bath, Naples.** This is a complete apparatus for individual and small class use. The most delicate work in paraffine imbedding and digestion experiments may be carried on in it, as well as the preparation of mounting media. It is the largest of the water baths designed for individual use and is in every way the best. The imbedding cups are semi-circular in shape, which enables them to be easily emptied, and have supports on the handles to prevent overturning when placed on a plane surface; there are five of these with glass covers, and six infiltration vials of two sizes.

Special features of this bath are an imbedding chamber, a drying chamber and a warming table. The imbedding chamber is on the top of the bath, covered by a glass plate, and has a tubulation for thermometer at the side. This chamber is 14 cm. long, 10 cm. wide, and 7.5 cm. deep, and is found useful for a variety of purposes, such as imbedding in special dishes, etc. The drying chamber is underneath the imbedding chamber and opens at the side of the bath. The warming table (shown in the illustration) is generally used for drying mounts, fixing objects on slides, and warming dishes, boxes, etc. Heavy copper is used throughout in the construction, except the base, which is sheet iron. A false bottom of sheet iron is provided. Water chamber: 23 cm. long, 29 cm. wide, and 13 cm. deep. Warming table: 70 cm. wide. Base: 20 cm. high.

<i>Rutnap</i>	2188	Complete, with thermometer, thermo-regulator, burner and asbestos mat, - - - - -	25 00
---------------	------	---	-------

BRANCHES: NEW YORK CITY AND CHICAGO.

# Water Baths



No. 2192.  
SIMPLE WATER BATH.



No. 2194.  
MABON'S WATER BATH.

**Water Bath, Simple.** For a small amount of imbedding, such as is done by the physician, this is a very useful bath. It has two imbedding cups, three infiltration vials, and a shelf for warming instruments or watch-glass imbedding. The cups are provided with handles and have glass covers; one is deep and the other watch-glass shaped. The bath is made of polished copper, which is tin lined, has a false bottom of sheet iron and is enclosed with a sheet iron base. Tubulations for thermometer and thermo-regulator are provided. Bath proper: 17.5 cm. long, 9 cm. wide, and 8.5 cm. deep. Base: 20 cm. high.

Telegraphic Code.	Catalogue Number.		Price.
<i>Rutsim</i>	2192	Complete, with thermometer, thermo-regulator, burner and asbestos mat,	\$10 00

**Water Bath, Mabon's.\*** This is a convenient bath designed for use in the laboratory of the St. Lawrence State Hospital. It was made with a view of economizing both space and heat. Flasks of different sizes may be placed in openings provided by two sets of concentric rings, five in number and giving sizes from one to six inches. An extra ring, having 22 holes for medium sized test tubes, may be used to replace one set of rings. The bath has tubulations for thermometer and filling. It is made of tin-lined copper and has enclosed base (not shown in illustration) and a false bottom of sheet iron. Size: 38 cm. long, 17.7 cm. wide, and 12.7 cm. deep; base 20.3 cm. high.

An oil burner may be satisfactorily used with this bath.

<i>Ruttiv</i>	2194	Complete, with thermometer and gas burner,	10 00
---------------	------	--	-------

\* See Journal of Applied Microscopy, Vol. I, p. 33, Feb. '98; William Mabon, M. D.

# Water Baths and Drying Ovens



No. 10296.

COPPER WATER BATH.

**Water Bath, Copper.** This is a small bath that can be started and used very quickly. It has concentric rings of copper, a cover, steam escape, and an extra plate perforated to receive test tubes.

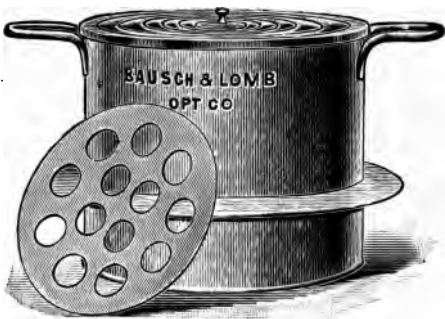
Telegraphic Code.	Catalogue Number.		A	B	C
<i>Ruvopu</i>	10296	Diam, mm.,	125	150	200
		No. of rings, -	4	5	6
		Each,	\$1 25	1 75	2 50

*Ruvost* 10297 Constant water level fitted to size A, B or C; extra, \$1 00

**Water Bath, Agate-ware.** A deeper bath than the preceding and intended for support on an iron tripod (see Cat. No. 10280).

			A
<i>Ruvin</i>	6074	Diam. mm.,	165
		Each,	\$2 50

*Ruvost* 6076 Each with tripod, 3 00



No. 6074.

AGATE-WARE WATER BATH.



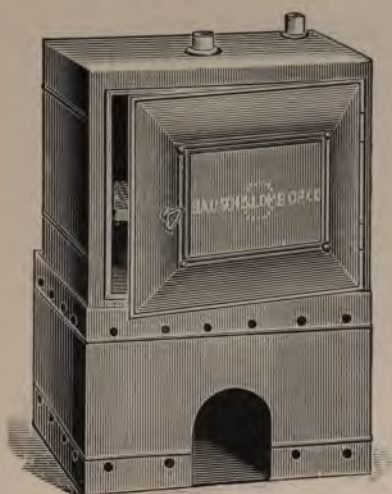
No. 2190.

REEVES' WATER BATH AND OVEN.

**Water Bath and Oven, Reeves'.** This combination apparatus has a 500 cc. stock paraffine cup, which is deep and conical in shape and provided with a handle, cover and stirrer. The large drying chamber is entirely surrounded by the water space. It has a removable shelf, is closed by a door hung on heavy hinges and fastened by a strong latch. Tubulations for thermometer and thermo-regulator. Made of heavy copper throughout and furnished with a closed base of sheet iron (not shown in illustration). Outside dimensions: 26.5 cm. in diameter, 22 cm. high (without base). Chamber: 17 cm. wide, 13 cm. high, and 15 cm. deep.

*Rutrev* 2190 Complete, with thermometer, thermo-regulator, burner and asbestos mat, 15 00

## Drying Ovens and Serum Apparatus



No. 2196.

WATER BATH DRYING OVEN.



No. 6086.

SERUM SOLIDIFYING APPARATUS.

**Water Bath Drying Oven.** A very uniform temperature may be obtained in this oven. It has a large chamber and a wire-center shelf. The door is hung on heavy hinges and is fastened with a substantial catch.

The oven is made of heavy copper and has a false bottom of sheet iron. The enclosing base is also of sheet iron. Inside dimensions of chamber, 25 x 30 cm.

Telegraphic Code.	Catalogue Number.	Price.
<i>Rutvov</i>	2196	Complete, with thermometer, thermo-regulator, burner, and asbestos mat, - - - - \$15 00

**Water Bath Drying Oven with rings.** This oven is of the same construction as the preceding, but has in addition a set of concentric rings on the top for the insertion of flasks, cups, etc.

<i>Rutvode</i>	2198	Complete, with thermometer, thermo-regulator, burner, and asbestos mat, - - - - 18 00
----------------	------	--

**Serum Solidifying Apparatus.** Consists of a shallow case supported by two fixed and two adjustable legs for the inclination of tubes containing fluid serum, nutrient agar-agar, and similar substances. It is made of tin-lined copper, and covered with a non-conducting and waterproof material. Underneath the outside lid is a glass one. Double walls; tubulations for thermometer and thermostat; water-gauge and stop cock. Inside dimensions: length, 40 cm.; width, 20 cm.; depth, 6.3 cm.

<i>Vacu</i>	6086	Complete, with thermometer, thermo-regulator, burner, and asbestos mat, - - - - 25 00
-------------	------	--

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Agate-ware

**Agate-ware, Nickel Steel.** This ware is strong and durable. It is *double coated* with hard enamel; will not rust or break like ordinary enamels, and is very satisfactory for all purposes. For use with acids, however, it is not recommended; agate-ware for this use, and a larger line of this nickel steel agate-ware, will be found in Catalogue F, Chemical Apparatus.



No. 8002.



No. 8004.



No. 8006.



No. 8016.

**Boilers, with retinned cover and patent bottom, which prevents scorching of contents and affords protection to that part of the vessel which receives the most wear.**

Telegraph Code.	Catalogue Number.		A	B	C	D
<i>Vaebate</i>	8002	Capacity, cc., - -	1000	2000	3000	5000
		Diameter, mm., - -	145	170	200	225
		Height, mm., - -	95	100	110	125
		Each, - - - - \$	75	90	1 05	1 25

**Boilers, deep, with retinned cover.**

			A	B	C	D
<i>Vaeding</i>	8004	Capacity, cc., - -	1000	2000	3500	5000
		Diameter, mm., - -	125	155	190	220
		Height, mm., - -	90	110	145	160
		Each, - - - - \$	50	60	85	1 10

**Boilers, double, with retinned cover.**

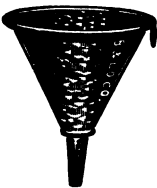
			A	B
<i>Vaeffe</i>	8006	Capacity of inside boiler, cc., - -	1500	4000
		Diam. bottom outside boiler, mm., - -	230	480
		Each, - - - - \$	1 50	2 00

**Casseroles, seamless, strong lipped.**

			A	B	C	D
<i>Vaehey</i>	8016	Capacity, cc., - -	500	750	1000	2000
		Diameter, mm., - -	110	125	150	175
		Height, mm., - -	55	55	65	85
		Each, - - - - \$	20	25	35	45

BRANCHES: NEW YORK CITY AND CHICAGO.

# Agate-ware and Air Analysis



No. 8024.



No. 8034.



No. 8046.

## Funnels.

Telegraphic Code.	Catalogue Number.		A	B	C	D	E
<i>Vaekler</i>	8024	Capacity, cc.,	200	250	500	2000	3500
		Diameter, mm.,	100	115	150	220	270
		Each, - - \$	40	45	55	75	1 00

Funnels, see also Glassware and Porcelain Ware.

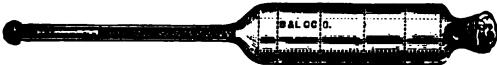
## Percolator.

							A
<i>Vaemam</i>	8034	Capacity, cc.,	-	-	-	-	500
		Diameter, mm.,	-	-	-	-	105
		Each, - - \$	-	-	-	-	75

## Trays.

							A	B
<i>Vaenery</i>	8046	Depth, mm.,	-	-	-	-	45	50
		Length, mm.,	-	-	-	-	230	260
		Width, mm.,	-	-	-	-	155	200
		Each, - - \$	-	-	-	-	50	60

# Air Analysis



No. 6100.

**Aerobioscope**, Sedgwick-Tucker. For collecting bacteria from a measured quantity of air by filtering through soluble media. May be used at any place and brought into the laboratory without fear of contamination. Of glass, with large cylinder graduated into squares for counting, a narrow tube for holding filtering material, and large neck constricted to hold cotton plugs. Length, 35 cm.; cylinder, 15 cm. long, 4.5 cm. diam.; tube, 15 cm. long, 0.5 cm. inside diam.

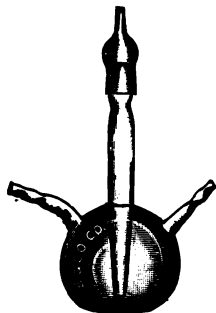
*Vaepnate* 6100 Complete with funnel. - - - - Each, \$2 00

**Hesse's Apparatus**. Also for quantitative examination of air. Consists of a glass tube having one end closed with a stopper through which a short glass tube passes, and the other closed by two caps, one of which has a central opening. Tube, 70 cm. long and 3 cm. diam.

*Vaerm* 6102 Complete, with graduated aspirating bottle, tubing and folding tripod, - - - - 18 00

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# Air Analysis and Anaerobic Culture Apparatus



No. 6104.



No. 6106.

**Miquel's Flask** for collection of bacteria. The funnel-like neck extends into the flask and is covered by a cap ground to fit. Two side tubes. Capacity, 150 cc.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vaester</i>	6104	Each, - - - - -	\$2 00

**Straus-Wurtz Apparatus**, for removing bacteria from air by its aspiration through water or gelatin. May be operated at any point and contents later made into roll-tube or plate cultures. Consists of a glass cylinder 250 x 30 mm., having a ground pipette stopper with constriction for cotton plug, and a side arm also constricted.

<i>Vaevey</i>	6106	Each, - - - - -	2 50
---------------	------	-----------------	------

## Anaerobic Culture Apparatus



No. 6120.



No. 6122.



No. 6124.

**Anaerobic Culture Jar**, Novy's. For *tube* cultures by the gas or pyrogallate methods. Square shouldered glass jar with inlet and outlet tubes on the sides of neck. Hollow stopper with tube to bottom of jar and handle for turning, ground to fit. See *Journal of Applied Microscopy*, Vol. II, No. 2.

<i>Vaew</i>	6120	a. Size for 125 mm. test tubes, 80 mm. inside diameter. - - - - -	Each,	2 50
		b. Size for 150 mm. test tubes, 100 mm. inside diameter. - - - - -	Each,	3 00

BRANCHES: NEW YORK CITY AND CHICAGO.



## Anaerobic Culture Apparatus and Animal Holders

**Anaerobic Culture Jar, Novy's.** For *plate* cultures by gas or pyrogallate methods. Similar in construction to the preceding but larger and in two sections for use of Petri dishes. Sections are clamped together by three metal clamps. Ground joining surfaces, wide, flat outside flanges to hold rubber bands and clamps for sealing. Lower section: 125 mm. diam., 120 mm. high. See *Journal of Applied Microscopy*, Vol. II, No. 2.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vafable</i>	6122	Complete, with three clamps and bands,	\$6 00

**Anaerobic Culture Jar, Novy's Improved.** For plate cultures by the vacuum, gas or pyrogallate methods. The feature of excellence over other jars is the addition of a second stopper supported horizontally by glass tubes on the regular stopper, which relieves the latter from pressure and allows the vacuum method to be easily employed. Dimensions same as preceding. See *Journal of Applied Microscopy*, Vol. II, No. 2.

<i>Vafbling</i>	6124	Complete, with three clamps,	7 50
-----------------	------	------------------------------	------

**Anaerobic Culture Apparatus Bands, of rubber.**

<i>Vafcer</i>	6130	Each,	15
---------------	------	-------	----

**Anaerobic Culture Apparatus Clamps.**

<i>Vafden</i>	6132	Each,	25
---------------	------	-------	----

## Animal Holders



No. 6140.



No. 6142.



No. 6146.

**Cage, Vaughan's.** Metal being preferable to wood for enclosures to contain inoculated animals, this cage has metal framework and woven wire sides, bottom and lid. It is for holding such animals as rabbits and Guinea pigs, and is made collapsible for compactness in sterilization and storage. Rectangular in shape, supported on legs, with hinged lid. Height (not including legs), 30 cm.; depth, 38 cm.; width, 54 cm. Total height, 42 cm.

<i>Vafette</i>	6140	Each,	10 00
----------------	------	-------	-------

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# Animal Holders

**Holder for Guinea Pigs, Voges'.** Cylindrical zinc holder with slot in side from the open end, and perforated base. This holder is of improved construction, having the slot unobstructed by any band, which enables the animal to be easily withdrawn. The open end is strengthened by extra metal.

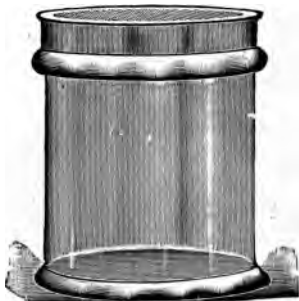
Telegraphic Code.	Catalogue Number.		Price.
<i>Vaffle</i>	6142	a. 6 cm. diam., 18 cm. length, 10 x 2 cm. slot.	
		Each, - - - - -	\$1 00
		b. 8 cm. diam., 20 cm. length, 10 x 2.5 cm. slot.	
		Each, - - - - -	1 25

**Holder for Mice, Kitasato's autopsic.** Nickel-plated metal plate with spring clamp for fastening the animal by skin of the neck and a spring clamp for holding the tail or leg. The plate may be supported in any position for autopsy by ball and socket joint on the pillar.

<i>Vafgary</i>	6146	Each, - - - - -	5 00
----------------	------	-----------------	------



No. 6148.



No. 6150.

**Holder for Mice, Inoculating.** Entirely of metal. Conical wire cage is detachable and may be renewed. Adjustable clamp for holding the tail of the animal.

<i>Vafher</i>	6148	Complete, - - - - -	1 50
---------------	------	---------------------	------

**Jar, Mouse.** A cylindrical glass jar with nickel-plated cover having woven wire center. The cover is held by a catch and can be released only by turning around to proper point. No extra weights are required. Ground label for writing data. Diameter, 15 cm.; height, 20 cm.

<i>Vafil</i>	6150	Each, - - - - -	2 00
--------------	------	-----------------	------

**Latapie's Holder** for rabbits, Guinea pigs, pigeons, etc., consisting of a low flat table with clamps and spring catches, will be imported on order.

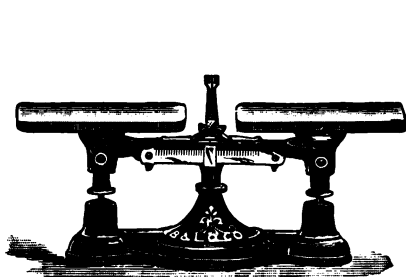
<i>Vaffer</i>	6154	Price quoted on request.	
---------------	------	--------------------------	--

**Rat forceps,** see Forceps.

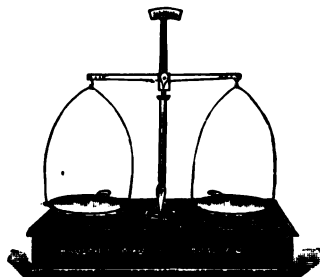
BRANCHES: NEW YORK CITY AND CHICAGO.

# Balances and Weights

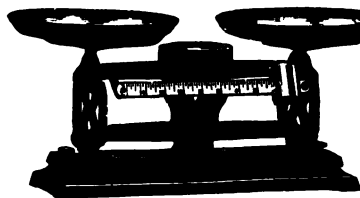
## Open Balances



No. 8106.



No. 8132.



No. 8104.

**Balance, Harvard Trip.** A serviceable laboratory balance for general use. The articles to be weighed are placed on one of the large, square porcelain plates and balanced by weights placed on the other plate together with a rider on the side beam. Mechanical parts are substantially made and neatly japanned. Capacity, 1 kilogram to  $\frac{1}{10}$  gram.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vaflar</i>	8106	Each, - - - - -	\$8 00

**Balance, Micro-Chemical.** A handy balance for weighing out chemicals, etc., used in bacteriological work. The metal parts are nicked and mounted on a wooden base in the drawer of which they may be placed when so desired. Diameter of pans, 75 mm.; length of beam, 150 mm.

<i>Vafness</i>	8132	Each, <i>net</i> , - - - - -	3 00
----------------	------	------------------------------	------

**Balance, Torsion Laboratory.** The torsion construction applied to a balance to be used for weighing articles in bulk is very satisfactory, as there are no knife edges to clog, wear or otherwise deteriorate. This balance is made with side beam graduated in the metric system and has two large nicked pans. The other parts are neatly japanned. Capacity, 5 kilograms; sensitive to 0.5 gram; diameter of pans, 150 mm.

<i>Vafple</i>	8104	Each, <i>net</i> , - - - - -	12 50
---------------	------	------------------------------	-------

## Enclosed, Long Arm

**Balance, Kohlbusch's Laboratory.** An extremely reliable balance with adjustable screws on the beam ends. In mahogany case with glass sides and sliding front; also leveling screws and spirit level. Sensitive to  $\frac{1}{100}$  grain. Nicked pans, 75 mm. diameter.

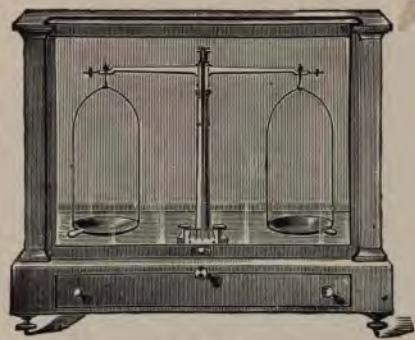
<i>Vafrer</i>	8140	<i>a.</i> As described above. - - - - -	Each, <i>net</i> , 22 50
		<i>b.</i> With agate bearings. - - - - -	Each, <i>net</i> , 27 00

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# Balances



No. 8140.



No. 8142.

**Balance, Troemner's Laboratory,** with agate bearings. An all-jeweled balance with gold-plated beam and solid silver pans. The case has leveling screws, spirit level and downward pointing indicator. It is made of old mahogany and very roomy. The door is counterpoised and slides upward. The beam has adjusting screws. Finish of parts not otherwise indicated is in nickel-plate. Diameter of pans, 75 mm.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vafstel</i>	8142	Each, <i>net</i> , - - - - -	\$38 00



No. 8146.

**Balance, Sartorius.** A new model mounted on black plate glass and with triangular beam. In a fine case with upward sliding door. Arrests are fitted to the beam, scales and hangers. The bearings are of agate and the pans platinum plated. May be imported free of duty if desired; price on request.

<i>Vafter</i>	8146	<i>a.</i> Without displacement of rider.	Each, <i>net</i> ,	40 00
		<i>b.</i> With displacement of rider.	Each, <i>net</i> ,	50 00

BRANCHES: NEW YORK CITY AND CHICAGO.

## Balances

### Short Arm



No. 8150.



No. 8164.

**Balance, Kohlbusch.** This balance has a rider movable across the entire beam, which is divided into one-fifth milligrams, arrests of improved type for the beam and pans, and agate bearings. May be used for specific gravity determinations. The case is made with glass sides and top, and upward sliding door. Diameter of pans, 75 mm.; capacity of each, 200 grams.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vagak</i>	8150	Each, <i>net</i> , - - - - -	\$50 00

**Balance, Kohlbusch.** Also complete in every detail. All parts are heavily platinum plated, making it non-corrosive. It is mounted on plate glass. The arrest of beam and pans is very delicate, causing no jar when released. Beam is graduated on both sides and the rider has free movement over its entire length. A bench for specific gravity determinations, a stand for weighing tubes and a set of heavily platinum-plated weights of 100 grams to 1 milligram, together with two extra riders, are provided. The case is made of handsome mahogany and with the sides and top to admit light freely. Doors on both front and back, sliding upward. Capacity, 200 grams in each pan; sensitive to  $\frac{1}{20}$  milligram.

<i>Vagbok</i>	8164	Each, <i>net</i> , - - - - -	100 00
---------------	------	------------------------------	--------

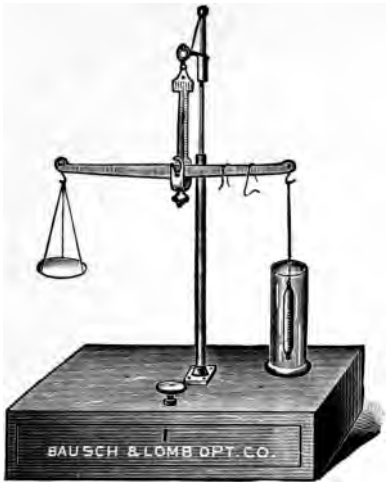
### Specific Gravity

**Specific Gravity Balance, Mohr's, with Reimann's thermometer.** For both liquids and solids; accurate to the fourth decimal. Adjustable support and set of pans for ordinary weighing. Drawer with lock and key in base; lacquered brass parts.

<i>Vagcer</i>	6180	Complete, with set of riders, <i>net</i> , - - -	12 00
---------------	------	--	-------

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# Balances and Weights



No. 6180.

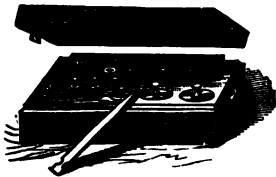


No. 6182.

**Specific Gravity Balance**, Westphal's, with Reimann's thermometer. For liquids; accurate to the fourth decimal. Adjustable support, and base which will enclose the whole apparatus.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vagdling</i>	6182	Complete, with set of riders, <i>net</i> ,	\$12 00
Specific gravity and weighing balance, see also Nos. 8150 and 8164.			

## Balance Weights



No. 8240.



Nos. 8262-8266.

**Balance Weights**, Kohlbusch's. Sets in wooden blocks or boxes. The larger sizes are solid brass, which is heavily lacquered to prevent tarnishing; the milligram weights are nickel, silver and aluminum.

<i>Vagel</i>	8240	One 10-gram piece and down to 1 centigram. Capacity, 20 grams,	In box, <i>net</i> ,	80
<i>Vagelo</i>	8241	One 10-gram piece and down to 1 centigram. Capacity, 20 grams,	In block, <i>net</i> ,	50
<i>Vagful</i>	8242	One 20-gram piece and down to 1 centigram. Capacity, 50 grams,	In box, <i>net</i> ,	90
<i>Vagfuli</i>	8243	One 20-gram piece and down to 1 centigram. Capacity, 50 grams,	In block, <i>net</i> ,	60
<i>Vaggle</i>	8244	One 50-gram piece and down to 1 centigram. Capacity, 100 grams,	In box, <i>net</i> ,	1 40
<i>Vagglir</i>	8245	One 50-gram piece and down to 1 centigram. Capacity, 100 grams,	In block, <i>net</i> ,	1 00
<i>Vaghel</i>	8258	Sets of milligram weights, 500 to 10 milligrams, separate from full sets.	Per set, <i>net</i> ,	25

BRANCHES: NEW YORK CITY AND CHICAGO.

## Balance Weights, Etc.

### Balance Weights, Kohlbusch's—Continued.

Single brass weights for sets 8240–8245:

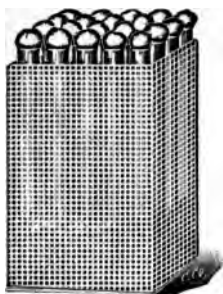
Telegraphic Code.	Catalogue Number.		A	B	C	D	E	F
<i>Vagible</i>	8260	Capacity, grams,	1	2	5	10	20	50
		Each, <i>net</i> , -	\$ 10	10	12	15	25	30
		Capacity, grams,	G 100	H 200	J 500	K 1000		
		Each, <i>net</i> , -	\$ 45	60	90	1 60		

**Balance Weights, Kohlbusch's iron, for coarse weighing:**

<i>Vagjer</i>	8262	One kilo piece down to ten gram, <i>net</i> ,	-	-	\$1 10
<i>Vagkel</i>	8264	Two kilo piece down to ten gram, <i>net</i> ,	-	-	1 75
<i>Vagle</i>	8266	Five kilo piece down to ten gram, <i>net</i> ,	-	-	3 00

**Balance Weights, Kohlbusch's, single brass.**

			A	B	C	D	E	F
<i>Vagmine</i>	8292	Capacity, grams,	1	2	5	10	20	50
		Each, <i>net</i> , - -	\$ 20	20	25	30	40	45
		Capacity, grams,	G 100	H 200	J 500	K 1000		
		Each, <i>net</i> , - -	\$ 65	90	1 35	2 25		



No. 6190.



No. 8390.



No. 8332.

**Basket, Test Tube.** Of tinned metal for use in incubators and sterilizers. Size, 12.5 x 10 x 15 cm.

<i>Vagnor</i>	6190	Each,	-	-	-	-	-	30
---------------	------	-------	---	---	---	---	---	----

**Blast Burner, Bunsen's adjustable.** This is an excellent burner; it has separate stop-cocks for controlling the flow of air and gas.

<i>Vagoper</i>	8390	Each,	-	-	-	-	-	4 00
----------------	------	-------	---	---	---	---	---	------

**Blast Burner Blowers.** These foot-power blowers are especially constructed for laboratory use. The air reservoir is formed by a rubber disc, which may be increased by several thicknesses to give greater pressures.

			A	B	C
<i>Vagring</i>	8332	Diameter of reservoir, mm.,	180	225	275
		Each, - - -	\$6 00	7 20	9 60
<i>Vagsor</i>	8334	Extra rubber discs,	- 60	90	1 20
<i>Vagter</i>	8336	Extra nets,	- 40	40	40

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.



## Blood Apparatus



No. 1220.



No. 1214.

**Hæmacytometer, Gower's.** For counting blood corpuscles. Consists of a glass mixing jar, a graduated capillary tube, a graduated mixing pipette, and a circular cell of definite depth attached to a glass slip on a metal stage plate with clips for holding cover-glass. The cell is ruled in squares, so that calculations of the number of corpuscles per unit of volume may be readily made. The accessories included are: glass bottle with ground stopper, guarded spear-pointed needle, stirring spud, camel's hair brush, and cover glasses. In the directions which accompany the apparatus, the method and the hæmic unit are fully described.

Telegraphic Code.	Catalogue Number.		Price.
<i>Raxdit</i>	1220	In case, complete, <i>net</i> ,	\$23 00

**Hæmacytometer, Thoma-Zeiss.** For counting red corpuscles. A capillary tube for mixing and a chamber for counting constitute this accurate blood-counting outfit. The capillary tube expands in the upper part into a bulb having a glass mixer, and is graduated in its lower part so that definite ratios of mixture may be obtained *e. g.*, one part in one hundred. The chamber is on a glass slip. It is circular in shape and has a recess for excess fluid. The counting spaces are very small and the volume over each is of corresponding minuteness. The method for use is described in the directions.

<i>Raxel</i>	1206	Complete in case, <i>net</i> ,	10 40
<i>Raxfay</i>	1208	Extra mixing pipette. Each, <i>net</i> ,	3 60

**Hæmacytometer, Thoma-Zeiss.** For counting white corpuscles.

<i>Raxgil</i>	1210	Complete in case, <i>net</i> ,	10 40
<i>Raxhit</i>	1212	Extra mixing pipette. Each, <i>net</i> ,	3 60

**Hæmacytometer, Thoma-Zeiss.** For counting both red and white corpuscles.

<i>Raxili</i>	1214	Complete in case, <i>net</i> ,	14 40
---------------	------	--------------------------------	-------

BRANCHES: NEW YORK CITY AND CHICAGO.



# **Blood Apparatus**

**Hæmacytometer Counting Chamber, Thoma-Zeiss.** Beside blood counting, it is useful in yeast-cell counting, etc.

Telegraphic Code.	Catalogue Number.		Price.
<i>Raxjap</i>	1216	Each, <i>net</i> , - - - - -	\$6 00

**Hæmacytometer Cover Glass.** For Thoma-Zeiss Counting Chamber.

<i>Raxkar</i>	1218	Of plane polished glass 0.4 or 0.6 mm. thickness, Each, <i>net</i> , - - - - -	30
<i>Raxlov</i>	1220	Of plane polished glass 0.18 mm. thickness, cemented to a stout conical cell. Each, <i>net</i> ,	80

**Hæmacytometer Mixing Pipette, Miescher.** This pipette has three graduations for different strength solutions; *i. e.*, one in one hundred, one in two hundred, and one in five hundred. The point of the pipette is polished.

*Vagtucy* 6194 With counting chamber No. 1216; complete, *net*, 12 80



No. 1224.



No. 1228.

**Hæmoglobinometer, Gower's.** For estimating the amount of hæmoglobin. Consists of two ellipsoidal tubes, one containing a solution, whose color has been standardized to that of normal blood, and the other graduated to show the amount of dilution necessary to bring the sample of blood mixed in it up to that of the standardized solution. The shape of the tubes favors accurate determinations. A base for the support of tubes, a graduated capillary pipette for filling, a spear-pointed needle, and a pipette stoppered bottle complete the outfit.

<i>Raxmil</i>	1224	In case, with directions. - -	Each, <i>net</i> , 7 60
---------------	------	-------------------------------	-------------------------

**Hæmoglobinometer, Gower's.** Circular tube with standardized solution, graduated circular comparison tube, capillary pipette, and cork-wood base.

*Raxnot* 1226 In case with directions. - - Each, *net*, 2 25

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# Blood Apparatus

## Hæmacytometer and Hæmoglobinometer, Gower's.

Telegraphic Code.	Catalogue Number.		Price.
<i>Raxpar</i>	1230	In one case, complete, <i>net</i> ,	\$30 00

**Hæmometer** (Hæmoglobinometer), Fleischl's. The standard of comparison in this instrument is a movable tinted wedge of glass which is mounted in a frame with a scale of percentages. The blood solution occupies half of a cell over the wedge in such a way that the eye can readily compare the color of scale and blood. Only a small quantity of blood is required. By the use of this instrument, the determination of the percentage of hæmoglobin is more easily accomplished than by other methods.

<i>Raxpo</i>	1228	Complete, with pipettes for blood and diluting solution, in case; <i>net</i> ,	25 00
--------------	------	--	-------

**Hæmometer** (Hæmoglobinometer), Miescher's modification of Fleischl's. The utility and accuracy of this instrument have been increased by the modifications, which consist in using a dilute solution of a known degree of concentration and a definite depth of fluid in the cell. A mixing pipette is employed which gives better results than the aspirating capillary pipettes. The most advantageous sections of the wedge may be used, which contributes to the accuracy of the method and furnishes additional means of verification. The test solutions are made independently of the instrument, hence the latter may be standardized to read absolute percentage of hæmoglobin and is devoid of all dependence on the so-called normal blood standard.

The cell is of improved type and provided with diaphragm and covers. Detailed directions for setting up and adjusting the instrument, and for its calibration (including table), are furnished.

<i>Vagular</i>	6200	Complete outfit, including two cells and a mixing pipette, in case; <i>net</i> ,	50 00
----------------	------	--	-------



No. 6202.

**Hæmoglobin Outfit, Physician's.** For approximate estimation of hæmoglobin according to Hammerschlag's specific gravity method. This simple outfit may be carried to the bedside, if desired, and will give sufficiently accurate results for diagnostic purposes. The hydrometer is especially graduated with large graduations between the limits given by Hammerschlag's table. The outfit consists of a hydrometer jar, a mixing jar, a glass-stoppered bottle, a stirring rod, and is furnished complete with directions and table in a carrying case.

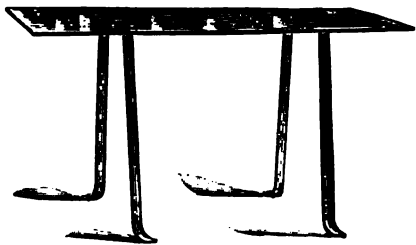
<i>Vagwe</i>	6202	Each,	5 00
--------------	------	-------	------

BRANCHES: NEW YORK CITY AND CHICAGO.

# Blood Apparatus—Brushes



No. 1232.



No. 2168.

**Blood Apparatus, Migge's.** A set of instruments specially designed for obtaining uniform blood spreads and to eliminate liability of condensation on cover-glass. It includes Migge's lock forceps with ivory plates on points, a lancet, and pair of cover-glass forceps with very accurately adjusted points.

Telegraphic Code.	Catalogue Number.		Price.
<i>Raxque</i>	1232	In case, complete, - - - - -	\$5 00

**Blood Apparatus Warming Table.** For drying and mounting, specially with Ehrlich method. Top made of copper with rounded edges. Legs may be set at any position under the table and be detached. Top, 39 x 10 cm.; height, 20 cm.

<i>Runwar</i>	2168	Each, - - - - -	80
---------------	------	-----------------	----

## Brushes



No. 8500.



No. 8508.

**Brush, Camel's Hair.** Miniature size; bound in quill handle.

<i>Radace</i>	8500	Numbers,	A	B	C	D	E	F	G	H
			1	2	3	4	5	6	7	8
		Length of hair, mm.,	8	10	12	14	16	18	20	22
		Per ten, - - -	\$ 25	30	35	40	45	50	55	60

**Brush, Camel's Hair.** Pointed; bound with silk in swan-quill handle.

<i>Radada</i>	8502	Length of hair, mm.,			A	B	C
					18	22	25
		Per ten, - - -	-	-	\$ 60	75	1 00

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Brushes

### Brush, Russia Sable. In wooden handle with metal ferrule.

Telegraphic Code.	Catalogue Number.		A	B	C	D	E	F	G
<i>Vainet</i>	8508	Numbers,	1	2	3	4	5	6	7
		Per ten,	\$ 60	65	70	75	80	90	1 00
		Numbers,		H	J	K	L	M	
				8	9	10	11	12	
		Per ten,	-	-	\$1 10	1 20	1 30	1 40	1 50

### Brush, Red Sable. In wooden handle with metal ferrule.

			A	B	C	D	E	F	G	H
<i>Vaion</i>	8510	Numbers,	0	1	2	3	4	5	6	7
		Per ten,	\$1 00	1 25	1 50	1 75	2 00	2 25	2 50	3 00



No. 8512.



No. 8514.



No. 8518.



No. 8520.

### Brush, Cleaning.

<i>Vaist</i>	8512	For large jars, etc.	-	-	-	-	Each,	\$ 30
<i>Vaitable</i>	8514	For graduates, cylinders, etc.	-	-	-	-	Each,	30
<i>Vaixo</i>	6210	For potatoes.	-	-	-	-	Each,	25

### Brush, Glass. For acids; 6 mm. diam.

<i>Vajel</i>	8524	Each,	-	-	-	-	-	-	25
--------------	------	-------	---	---	---	---	---	---	----

### Brush, Hand. For scrubbing, etc.

<i>Vajful</i>	8526	Each,	-	-	-	-	-	-	10
---------------	------	-------	---	---	---	---	---	---	----

### Brush, Test Tube.

<i>Vajab</i>	8516	Made of bristles, with brush end and wire handle; superior quality.	-	-	-	-	Per ten,	75
<i>Vajbler</i>	8518	Made of bristles, with sponge end and metal handle; superior quality.	-	-	-	-	Per ten,	75
<i>Vajcer</i>	8520	Sponge brush with rattan handle; superior quality.	-	-	-	-	Per ten,	75
<i>Vajdes</i>	8522	Sponge brush with whalebone handle; superior quality.	-	-	-	-	Per ten,	1 25

# Burners



No. 6216.



No. 8468.



No. 8470.

**Burner, Alcohol.** Of white glass with bottle-shaped body, metal wick enclosure, ground lip and glass cap.

Telegraphic Code.	Catalogue Number.		A	B	C	D
<i>Vaier</i>	6216	Capacity, cc.,	-	-	-	-
		Each,	\$ 25	30	35	40

**Burner, Alcohol.** This lamp is made of glass, with sides of such form that the wick enclosure may be placed at four different angles. The wick enclosure and extinguisher are metal. Prices include wicking.

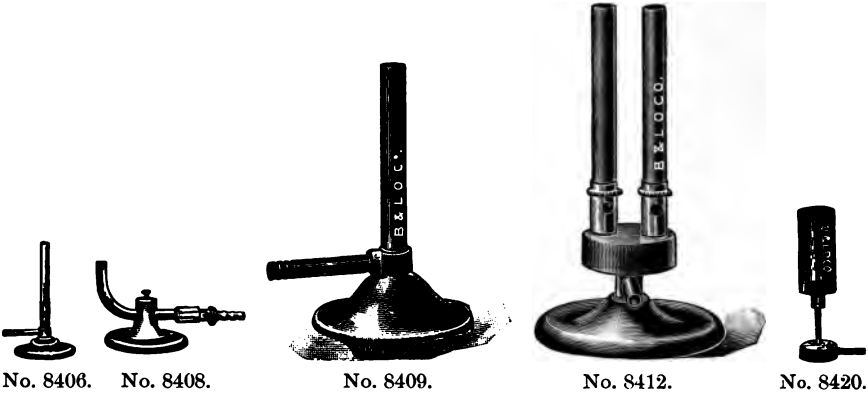
			A	B	C
<i>Vaife</i>	8468	Capacity, cc.,	-	-	-
		Diam. of burner, mm.,	-	-	-
		Each,	\$ 70	80	1 00

**Burner, Alcohol.** The body of this lamp is cylindrical and the bottom flat, which makes a very satisfactory lamp. It has a metal wick enclosure, a glass extinguishing cap, and a side tube for filling. Prices include wicking.

			A	B	C	D
<i>Vaihel</i>	8470	Capacity, cc.,	-	-	-	-
		Each,	\$ 40	45	50	60

**Burner Wicking.** A wick of any size is obtained by using the requisite number of strands.

<i>Vaik</i>	8472	Per ball,	-	-	-	-	\$ 10
-------------	------	-----------	---	---	---	---	-------



**Burner, Bunsen's Single Tube.** With flame check ; height, 150 mm.

<i>Vaha</i>	8406	Each,	-	-	-	-	40
-------------	------	-------	---	---	---	---	----

# Burners

## Burner, Bunsen's Low Form.

Telegraphic Code.	Catalogue Number.					Price.
<i>Vahbler</i>	8408	With flame check.	-	-	-	Each, \$ 50
<i>Vahbma</i>	8410	With flame check and mica chimney.	-	-	-	Each, 75

**Burner, Bunsen's Low Form.** With bottom air inflow. This burner is constructed on an entirely new principle; the air flows in from the bottom of the tube, which is unobstructed through its entire length. The air and gas are thoroughly mixed and complete combustion takes place. There is an air regulator at the bottom of tube.

<i>Vahclag</i>	8409	Without mica chimney.	-	-	-	Each, 60
<i>Vahdet</i>	8409A	With mica chimney.	-	-	-	Each, 85

## Burner, Bunsen's Multiple Tubed. Height, 150 mm.

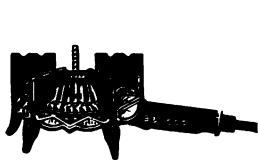
<i>Vahes</i>	8412	Two tubes.	-	-	-	Each, 1 00
<i>Vahful</i>	8414	Three tubes.	-	-	-	Each, 1 50
<i>Vahgel</i>	8416	Four tubes.	-	-	-	Each, 2 00

**Burner, Bunsen's Micro.** In this burner the air is projected through a minute opening which gives a very small flame and, when cut down, prevents the burner from lighting back. Height, 100 mm.

<i>Vahin</i>	8418	Without mica chimney.	-	-	-	Each, 1 00
<i>Vahjam</i>	8420	With mica chimney.	-	-	-	Each, 1 25

**Burner, Bunsen's Simplified Micro.** This burner is constructed on the same principle as the preceding one, with such construction modifications as lessen the cost without detracting from its efficiency. Height, 60 mm.

<i>Vahle</i>	6220	Each,	-	-	-	-	-	-	-	40
--------------	------	-------	---	---	---	---	---	---	---	----



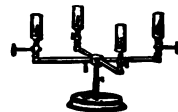
No. 8426.



No. 8432.



No. 8434.



No. 8440.

**Burner, Concentric Radial.** There are no loose parts on this burner which will stand a great deal of rough use, as it is made of annealed cast iron. Either coal, water or air gas may be used with equal satisfaction. The flames are practically solid and do not have any tendency to run to a point in the center. Diameter of burner ring, 90 mm.

<i>Vahmax</i>	8426	Each,	-	-	-	-	-	-	-	1 80
---------------	------	-------	---	---	---	---	---	---	---	------

**Burner, Gas.** With cock to regulate the admission of gas, and glass chimney. Height, 165 mm.

<i>Vahnet</i>	8432	Each,	-	-	-	-	-	-	-	2 50
---------------	------	-------	---	---	---	---	---	---	---	------

BRANCHES: NEW YORK CITY AND CHICAGO.

## Burners

**Burner, Gas.** With flames arranged in line or squares. These burners are adapted for use where a uniform distribution of heat over a large area is desired; *e. g.*, on incubators. They burn no more gas than burners of more compact construction, hence a saving in cost of heat is effected.

Telegraphic Code.	Catalogue Number.			Price.
<i>Vahom</i>	8434	Two flames in line. - - - -	Each,	\$2 00
<i>Vahpant</i>	8436	Two flames in line, with stop-cocks.	Each,	5 00
<i>Vahra</i>	8438	Four flames arranged in a square. -	Each,	4 00
<i>Vahse</i>	8440	Four flames arranged in a square, with stop-cocks. - - - -	Each,	8 00



No. 8442.



No. 8446.



No. 8460.



No. 8466.

**Burner, Instantaneous Water-heater.** An extremely useful laboratory article. When connected to the cold water supply it will deliver hot water within three seconds after lighting. Warm, hot, or boiling temperature may be maintained. The construction is so simple that it is not liable to get out of order.

<i>Vaktet</i>	8442	Each,	- - - - -	6 75
---------------	------	-------	-----------	------

**Burner, Koch's Safety.** For shutting off the flow of gas when flame becomes extinguished, and preventing explosions due to escaping gas. An invaluable burner for apparatus that is to be left without attention. As gas pressure from city supply houses is liable to vary, or other conditions arise which would extinguish the flame, some safeguard of this character is needed on unattended apparatus.

<i>Vahu</i>	8446	Small, with support. - - - -	Each,	4 50
<i>Vahvart</i>	8448	Medium, with support. - - - -	Each,	5 00
<i>Vahwil</i>	8450	Large, on adjustable support. - -	Each,	8 00
<i>Vaib</i>	8452	Large, with two burners on adjustable support.	Each,	12 00

**Burner, Ring-form.** For heating funnels, flasks, etc. May be attached to a support.

		A	B	C	D	
<i>Vaicer</i>	8460	Diam. of ring, mm.,	75	100	125	150
		Each, - - - -	\$1 00	1 25	1 50	1 75

**Burner, Vaporized Oil.** This burner is operated under air pressure supplied by a pump in base. As it gives an intense heat and burns kerosene oil it is a very desirable burner where gas cannot be obtained. Directions are included.

<i>Vaid</i>	8466	Each,	- - - - -	5 00
-------------	------	-------	-----------	------

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.



**Case—Cells**



No. 1916.

**Case, Reagent.** This case is a great convenience on the laboratory table; it keeps a number of reagent bottles together in plain sight and at the same time is absolute protection from dust. Seven 15 cc. dropping bottles and a 30 cc. balsam bottle are accommodated. The base is of light-colored wood, highly polished, and the cover a bell jar of white glass with knob and ground flange.

Telegraphic Code.	Catalogue Number.		Price.
<i>Ruefle</i>	1916	Complete, with bottles, - - - - -	\$4 00

**Cells, Mounting.** These cells, of glass, rubber or zylonite, will save the labor of building up cement ones, when cells of some depth are required. They are hollow cylinders with parallel tops and bottoms. Those made of rubber or zylonite may be had from 0.5 to 3 mm. in depth, and the glass ones from 2 mm. to any depth. Standard diameters are: 13, 16, 19 and 22 mm.

Telegraphic Code.	Catalogue Number.	Material.	Price per Ten.
<i>Raba</i>	1250	Glass	\$ 85
<i>Raber</i>	1252	Rubber	12
<i>Rabos</i>	1254	Zylonite	20



No. 1258.

**Cells, Mounting, Atwood's rubber.** Useful in mounting opaque objects and enable an object to be mounted independent of the slip. Recess for cover is 13 mm. diameter. Outside diameter, 19 mm.

<i>Rabym</i>	1258	Per ten, - - - - -	25
--------------	------	--------------------	----

BRANCHES: NEW YORK CITY AND CHICAGO.

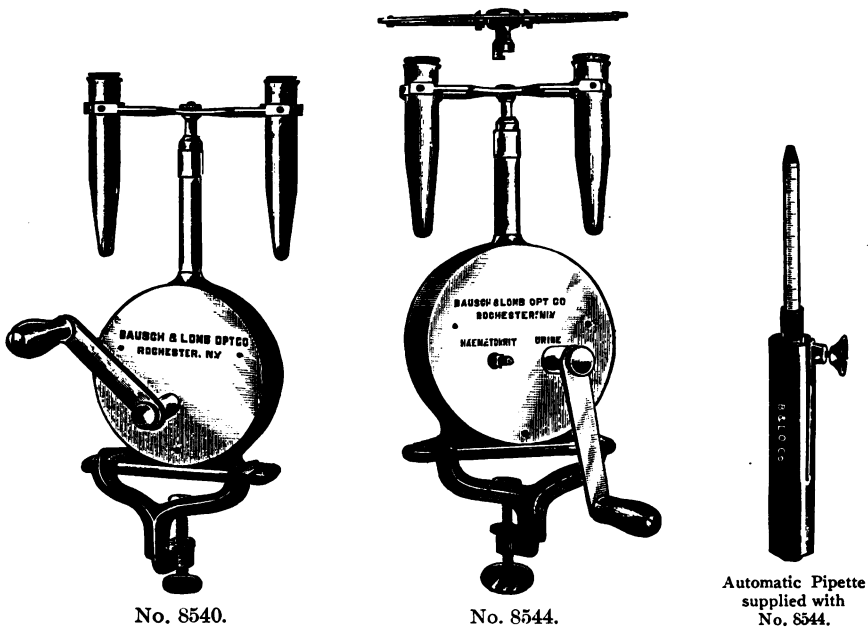
LIBRARY LIBRARY

## Centrifuges and Accessories

The Centrifuge is rapidly coming into general use for the clinical examination of blood, urine, milk and sputum, and for the collection of the organisms or solids in water, chemical substances, etc. The increased use of this apparatus is largely due to the improvements which we have made in its mechanical construction, and to our efforts in the dissemination of information as to proper methods for securing the results.

Our Centrifuges are everywhere acknowledged as the best in design and workmanship. They embody the correct principles of construction as laid down by the eminent authorities who have assisted in their development, and results as described in the literature of the subject can only be obtained by the use of our standard instruments. Every Centrifuge of our manufacture has our firm name engraved across the front of the case. Any instrument offered without our name is not our make.

Information as to methods and construction will be found in our manual, "Centrifugal Blood and Urine Analysis," sent gratis on request.



**Centrifuge, Single speed.** For urinary and other examinations requiring only low speed, *i. e.*, 2000 to 4000 revolutions per minute. Bacteria and substances in the urine may be precipitated in three minutes by the use of this apparatus. Not only is there effected an enormous saving of time (a reduction from about 18 hours, required by the old sedimentation methods, to the number of minutes indicated), but a more thorough precipitation is made under the exact conditions as found in the body.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

Centrifuges

Milk and water analyses are also quickly made: bacilli and the fats in milk and all solids in water being separated with ease.

The necessary speed is obtained through the use of spirally-cut gears of hardened bronze, which gives extreme ease in operation, good wear, and makes the apparatus practically noiseless. There is included one graduated urine tube, capacity 15 cc., and one ungraduated tube of the same capacity (8558 and 8560). The tubes are protected by aluminum shields and rest on elastic cushions to prevent breakage. A clamp attaches the apparatus to a table. For special milk tubes and attachment for holding four tubes, see accessories below.

Telegraphic Code.	Catalogue Number.		Price.
Raxwen	8540	Complete, with a plain and a graduated sedimentation tube; net,	\$10 00



Daland's Hæmatokrit (a part of No. 8544).

**Centrifuge, Two speed.** This centrifuge will do all that the single speed one will and has, in addition, facilities for higher speeds, such as are required for blood and sputum examinations in Daland's hæmatokrit. The change from low to high speed is made by simply changing the handle from one axle to the other. No change gear is necessary. Blood examination by the hæmatokrit is the quickest, simplest and most accurate method of determining the number of corpuscles in blood, and requires no dilution of the blood. In sputum examinations, results by its use will be obtained where the former method of smearing a cover glass fails; *e. g.*, in cases of suspected tuberculosis. But few bacilli, fibres, etc., being present, the probabilities of finding them by centrifugence is as many times greater as the volume contained in the hæmatokrit tube is larger than the amount which can be spread on cover glass.

Speeds up to 10,000 revolutions per minute may be obtained with but little exertion, and the revolving arms may be covered, if desired, by a guard listed below.

A new automatic pipette is now supplied by which the hæmatokrit tubes may be very accurately filled. The air in the tube is excluded by pressure on rubber tubing by which it is attached to the pipette, and then any quantity of blood may be drawn in by releasing the pressure.

Raxxil	8544	Complete, with hæmatokrit, automatic pipette, two-tubed sedimentation attachment with a plain and a graduated sedimentation tube and two plain sputum tubes; net,	20 00
--------	------	---	-------

## Centrifuge Accessories



No. 8550.



No. 8546.

**Centrifuge Sedimentation Attachment** of four tubes for milk analysis. May be attached to either single or two-speed centrifuges, and enables a larger amount to be centrifugalized at a time than with the attachment regularly furnished.

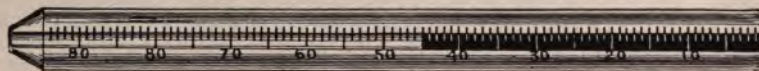
Telegraphic Code.	Catalogue Number.		Price.
Rayfan	8550	Each, <i>net</i> , - - - - -	\$5 00

**Centrifuge Guard for Hæmatokrit.** This is the guard referred to above (8544). It consists of a metal shield which fits over the arms of the hæmatokrit, so that the revolving parts cannot annoy nervous patients. Ample provision is made for ventilation.

Rayfogal	8548	Each, <i>net</i> , - - - - -	2 00
----------	------	------------------------------	------

**Centrifuge Carrying Case.** A great and almost indispensable convenience to the physician or demonstrator. Enables the centrifuge to be carried to the sick room or class room as any case of instruments. The interior is arranged to receive all the accessories, including a box for object slides. The case is covered with fine leather, has nickeled hinges and lock.

Raygala	8546	Each, <i>net</i> , - - - - -	4 00
---------	------	------------------------------	------



Twice actual size.

No. 8552.

**Centrifuge Percentage Tubes** for the hæmatokrit. With accurate lumen, lens-edge to magnify column of blood and the graduations, and graduated in millimeters from 0 to 100 over entire length.

Raxgar	8552	Each, <i>net</i> , - - - - -	50
--------	------	------------------------------	----



No. 8554.

**Centrifuge Lancet.** For puncturing the skin to obtain drop of blood. The depth of puncture may be regulated, and a locking device prevents injury to the person, while carrying it in the pocket.

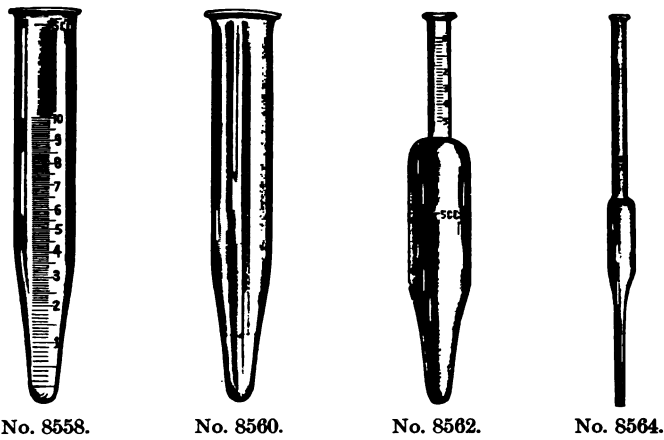
Raycama	8554	Each, <i>net</i> , - - - - -	1 50
---------	------	------------------------------	------

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# **Centrifuge Accessories**

**Centrifuge Clamp.** For attaching the centrifuge to a table's edge or similar place. Will hold it secure and not mar the place of attachment. See illustration 8540.

Telegraphic Code.	Catalogue Number.									Price.
<i>Rayful</i>	8551	Each, <i>net</i> ,	-	-	-	-	-	-	-	\$ 50



**Centrifuge Sputum Tubes.** For use in the Hæmatokrit. Same shape as the percentage tubes, ungraduated.

<i>Raybond</i>	8556	Each, <i>net</i> ,	-	-	-	-	-	-	-	25
----------------	------	--------------------	---	---	---	---	---	---	---	----

**Centrifuge Sedimentation Tubes, Graduated.** These tubes have conical ends to aid in measuring small quantities of sediment, and are graduated in tenths of centimeters to 10 cc., enabling the percentage of sediment to be read directly on the tube.

<i>Raxzola</i>	8558	Each, <i>net</i> ,	-	-	-	-	-	-	-	50
----------------	------	--------------------	---	---	---	---	---	---	---	----

**Centrifuge Sedimentation Tubes, Ungraduated.** Of the same shape as the preceding and intended for gathering precipitates to be examined microscopically.

<i>Rayola</i>	8560	Each, <i>net</i> ,	-	-	-	-	-	-	-	25
---------------	------	--------------------	---	---	---	---	---	---	---	----

**Centrifuge Milk Tubes.** For ascertaining the percentage of fat in a given volume of milk. The body of the tube is graduated to 5 cc., and the neck so as to give percentages of this volume.

<i>Raydor</i>	8562	Each, <i>net</i> ,	-	-	-	-	-	-	-	50
---------------	------	--------------------	---	---	---	---	---	---	---	----

**Centrifuge Pipette.** For filling milk tubes. Graduated to one cc.

<i>Rayele</i>	8564	Each, <i>net</i> ,	-	-	-	-	-	-	-	10
---------------	------	--------------------	---	---	---	---	---	---	---	----

**Centrifuge Shield Tubes** of aluminum. These shields hold the glass sedimentation tubes. They are regularly furnished with the centrifuge, but are listed extra for renewal in case of damage.

<i>Raygah</i>	8565	Each, <i>net</i> ,	-	-	-	-	-	-	-	25
---------------	------	--------------------	---	---	---	---	---	---	---	----

**Chamois Skin.** Of superior quality. Size, 37.5 x 50 cm.

<i>Vakes</i>	8570	Per piece,	-	-	-	-	-	-	-	50
--------------	------	------------	---	---	---	---	---	---	---	----

# Chopper for Meat—Clamps



No. 6250.

**Chopper, Meat.** For macerating substances in making culture media. All parts are well tinned and can be readily taken apart for cleaning. The substance is extracted from them by the regular operation of turning the handle.

Telegraphic Code.	Catalogue Number.		A	B	C	D
<i>Vakful</i>	6250	Weight of chopper, kilos,	2	3	4	6
		Capacity per min., grams,	500	1000	1500	2000
		Each, <i>net</i> ,	\$1 50	2 00	2 75	4 00

# Clamps and Clamp Holders



No. 8574.



No. 8576.



No. 8580.



No. 8582.

**Clamp, Attachable.** For use on apparatus stand. The jaws may be set at any angle by a check nut. Very useful for pipettes and burettes.

<i>Vakgin</i>	8574	Each,	-	-	-	-	-	-	-	\$ 45
---------------	------	-------	---	---	---	---	---	---	---	-------

**Clamp, Attachable.** For use on apparatus stand. The jaws open by pressure on lever end and close by a coil spring.

<i>Vakul</i>	8576	Each,	-	-	-	-	-	-	-	60
--------------	------	-------	---	---	---	---	---	---	---	----

**Clamp, Attachable.** For use on apparatus stand. Double form of preceding (8576).

<i>Vakley</i>	8578	Each,	-	-	-	-	-	-	-	1 00
---------------	------	-------	---	---	---	---	---	---	---	------

**Clamp, Holder.** For attaching clamps, extension rings, ring burners and other apparatus to an apparatus support. In one piece; angular seat in jaws.

<i>Vakney</i>	8580	Each,	-	-	-	-	-	-	-	25
---------------	------	-------	---	---	---	---	---	---	---	----

**Clamp, Holder, Universal.** Of two parts swiveled on the connecting bar and fastened in any position by set-screw.

<i>Vaknic</i>	8582	Each,	-	-	-	-	-	-	-	50
---------------	------	-------	---	---	---	---	---	---	---	----

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Clamps



No. 8584.



No. 8586.



No. 8588.

**Clamp, Beaker.** Of nickeled spring wire.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vaknol</i>	8584	Each,	\$ 20

**Clamp, Bunsen's Universal.** For holding irregular shaped articles. Fork-like jaws, compressed by thumb-screw and set at any angle in like manner on clamp stud.

<i>Vaknup</i>	8586	Each,	1 00
---------------	------	-------	------

**Clamp, Burette or tube.** One flat and one angle-seated jaw, cork lined.

<i>Vakopy</i>	8588	Each,	75
---------------	------	-------	----



No. 6256.



No. 8590.



No. 8592.

**Clamp, Burette.** Light spring-fork construction, nickeled, rubber-covered tips.

<i>Vakpol</i>	6256	Each,	45
---------------	------	-------	----

**Clamp, Hoffman's Apparatus.** This clamp has two flat jaws moved in straight line to angle-seated jaws and a connecting bar adjustable at any angle to clamp arm which fastens on apparatus stand.

<i>Vakrig</i>	8590	Each,	75
---------------	------	-------	----

**Clamp, Mohr's.** Of nickeled spring wire. For burette tubing.

<i>Vaktor</i>	8592	Size,	A	B	C
			Small.	Medium.	Large.
		Each,	15	16	20



A



B



C

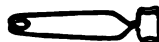
No. 8594.

**Clamp, Hoffman's Screw Form.** For rubber tubing. Forms B and C can be placed at any point without disconnecting the tubing.

<i>Vakuble</i>	8594	Form,			
			A	B	C
		Each,	30	40	50



No. 8596.



No. 8600.



No. 8602.

**Clamp, Scheiber's.** With spring opening by pressure.

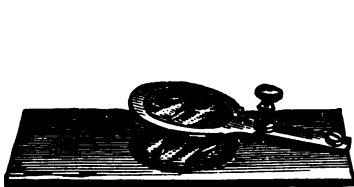
<i>Vakoa</i>	8596	Each,	30
--------------	------	-------	----



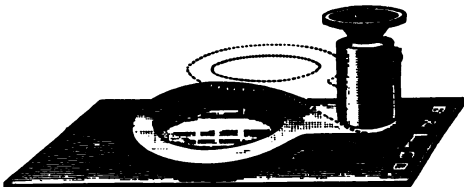
# Clamps—Compressors

Clamp, Test Tube.		Of wood, usual form.									
Telegraphic Code.	Catalogue Number.										Price.
<i>Vala</i>	8598	Each,	-	-	-	-	-	-	-	-	\$ 15
Clamp, Test Tube.		Of spring wire.							A	B	
<i>Valbar</i>	8600	Size,	-	-	-	-	-	Small	Large		
		Each,	-	-	-	-	-	\$ 15	20		
Clamp, Watch Glass.		Of brass, nickel plated.							A	B	
<i>Valces</i>	8602	Size,	-	-	-	-	-	Small	Large		
		Each,	-	-	-	-	-	\$ 20	25		

## Compressors



No. 1260.



No. 1262.

		<b>Compressor, Wenham's.</b> Diam. of glass discs 22 mm.									
<i>Racit</i>	1260	Each,	-	-	-	-	-	-	-	-	\$1 50
		<b>Compressor, Parallel.</b> An improvement of the Wenham compressor, in which the arm carrying the upper compressor glass is moved vertically by means of a screw and spring, and may be turned to one side if desired. Diameter of glass discs, 20 mm.									
<i>Racore</i>	1262	Each,	-	-	-	-	-	-	-	-	3 50



No. 1264.  
Figure actual size.

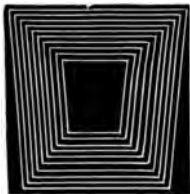
		<b>Compressor, Bureau of Animal Industry.</b> This compressor is used by the Government bureaus for meat inspection and is specially adapted to rapid and accurate examination of flesh suspected of containing trichinæ or other parasites.									
<i>Racuvo</i>	1264	Each,	-	-	-	-	-	-	-	-	2 00

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# Cork Supplies



No. 8610.



No. 8612.



No. 8614.

## Cork Stoppers. Short form, best quality.

Telegraphic Code.	Catalogue Number.	A	B	C	D	E	F	G	H	J
<i>Valgem</i>	8610	Numbers, 00	0	1	2	3	4	5	6	7
		Diams. top, mm., 8	9	10	11	12	14	16	18	20
		Per 100,	\$ 15	15	15	15	15	20	25	30
		Numbers, 8	9	10	11	12	13	14	15	
		Diams. top, mm., 22	24	26	28	29	30	31	32	
		Per 100,	\$ 40	50	60	65	70	75	85	95
		Numbers, 16	17	18	19	20	21	22	24	26
		Diams. top, mm., 34	36	38	40	43	46	50		
		Per 100,	\$1 05	1 15	1 25	1 50	1 75	2 50	3 00	

## Cork Stoppers. Long form, best quality.

<i>Valel</i>	8612	A	B	C	D	E	F	G	H	J
		Numbers, 00	0	1	2	3	4	5	6	7
		Diams. top, mm., 8	9	10	11	12	14	16	18	20
		Per 100,	\$ 15	15	15	20	20	25	30	40
		Numbers, 8	9	10	11	12	13	14	15	
		Diams. top, mm., 22	24	26	28	29	30	31	32	
		Per 100,	\$ 50	60	70	80	90	1 00	1 10	1 25
		Numbers, 16	17	18	19	20	21	22	24	26
		Diams. top, mm., 34	36	38	40	43	46	50		
		Per 100,	\$1 50	1 75	2 00	2 25	2 75	3 50	4 25	

Stoppers of Rubber, see Rubber Goods.

## Cork Press, Rotary. Two sizes :

<i>Valful</i>	8614	a. For corks up to 18 mm. diameter.	Each, \$ 75
		b. For corks up to 32 mm. diameter.	Each, 1 00

**Cork Borers.** Consist of several pieces of metal tubing of different sizes, with one end tapered to a very sharp edge, the other has a drilled hole for the insertion of a wire handle which accompanies each set.

<i>Valgren</i>	8616	No. of sizes.	A	B	C	D
			3	6	9	12
		Per set,	-	-	\$ 60	1 10 1 50 2 00

Cork Supplies—Cover Glass

**Cork Borer Sharpener.** A device having a knife edge which fits on the cork borer's cutting edge and turns it off.

Telegraphic Code.	Catalogue Number.									Price.
<i>Valhum</i>	8618	Each,	-	-	-	-	-	-	-	\$1 00

**Cork Files.** Of a special cut with fine points for perforating.

			A	B	C	D	E
<i>Valitus</i>	8620	Length, mm.,	75	100	125	150	200
		Each,	\$ 12	16	20	30	40

**Cork File Handles.** Best quality.

<i>Vamel</i>	8706	Per ten,	-	-	-	-	-	40
--------------	------	----------	---	---	---	---	---	----

**Cotton, Absorbent.**

<i>Valjar</i>	6268	Per 500 grams,	-	-	-	-	-	40
---------------	------	----------------	---	---	---	---	---	----

**Cotton Wool.** For plugging test tubes.

<i>Valk</i>	6270	Per 500 grams,	-	-	-	-	-	25
-------------	------	----------------	---	---	---	---	---	----

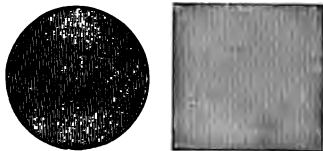
Cover Glass and Object Slides

All our covers are of the best pure white glass, especially manufactured for us and measured, cut and packed in our factory. This glass is extra tough, very uniform in thickness, and easily cleaned.

No. 2 covers should in all cases be used for our objectives, whether dry or immersion, as all are corrected for the standard thickness of 0.18 mm., the mean of the No. 2 glass.

For critical work or for use with foreign lenses, where the cover thickness is marked on the mount, measured covers should always be used, as the results obtainable warrant the slight extra cost. Those who prefer to measure the covers themselves will find our Cover Glass Gauge convenient and accurate.

Our Glass Slides are of the finest glass obtainable and are the whitest and freest from defects of any produced. The medium thickness is recommended for general work, as they are as thin as can be used in the laboratory without undue amount of breakage. The edges of all slides are finely ground.



Our regular circular and square cover glasses are packed in half-ounce packages and are furnished in 13, 15, 18, 22 or 25 mm. ( $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$  or 1 in.) diameter. When ordering always give *shape, thickness, size and quantity*. If no designation is given, 18 mm. No. 2 circles will be sent.

Cover Glass

PRICE LIST OF COVER GLASS.

CIRCULAR COVERS.

Telegraphic Code.	Catalogue Number.	" No. "	Thickness.	Price.	
				Per 10.	Per Oz.
<i>Racawap</i>	1270	0	Selected extra thin.	25c.	\$2 50
<i>Racawek</i>	1272	1	0.13 to 0.17 mm. $\frac{1}{100}$ to $\frac{1}{150}$ in.	18c.	1 25
<i>Racawos</i>	1274	2	0.17 to 0.25 mm. $\frac{1}{150}$ to $\frac{1}{100}$ in.	16c.	1 00
<i>Racawy</i>	1276	3	0.25 to 0.50 mm. $\frac{1}{100}$ to $\frac{1}{50}$ in.	14c.	80

Less than 13 mm. ( $\frac{1}{2}$  inch) in diameter, 25 per cent. advance.

SQUARE COVERS.

<i>Racbal</i>	1277	0	Selected extra thin.	20c.	\$2 00
<i>Racbp</i>	1278	1	0.13 to 0.17 mm. $\frac{1}{100}$ to $\frac{1}{150}$ in.	16c.	1 05
<i>Racbog</i>	1280	2	0.17 to 0.25 mm. $\frac{1}{150}$ to $\frac{1}{100}$ in.	14c.	80
<i>Racbuy</i>	1282	3	0.25 to 0.50 mm. $\frac{1}{100}$ to $\frac{1}{50}$ in.	12c.	60

Less than 13 mm. ( $\frac{1}{2}$  inch) in length, 25 per cent. advance.

RECTANGULAR COVERS.

Sizes other than those listed will be cut to order.

No. 1 Thickness 0.13 to 0.17 mm. Telegraphic Code <i>Raccab</i> Catalogue Number, 1284				No. 2 Thickness 0.17 to 0.25 mm. Telegraphic Code, <i>Raccad</i> Catalogue Number, 1286				No. 3 Thickness 0.25 to 0.50 mm. Telegraphic Code, <i>Raccim</i> Catalogue Number, 1288				
Cata- logue Letter.	Size, mm.	Price.		Cata- logue Letter.	Price.		Cata- logue Letter.	Price.		Cata- logue Letter.	Price.	
		Per. 10.	Per 100.		Per 10.	Per 100.		Per 10.	Per 100.		Per 10.	Per 100.
a	18 x 30	30c.	\$1 30	a	25c.	\$1 15	a	20c.	\$1 50			
c	18 x 40	35c.	1 65	c	30c.	1 50	c	25c.	1 35			
h	20 x 30	30c.	1 40	h	25c.	1 25	h	20c.	1 15			
j	20 x 40	40c.	1 90	j	35c.	1 70	j	30c.	1 55			
l	20 x 50	50c.	2 30	l	45c.	2 10	l	40c.	1 90			
n	22 x 30	35c.	1 55	n	30c.	1 40	n	25c.	1 25			
o	22 x 40	40c.	2 05	o	35c.	1 85	o	30c.	1 70			
p	22 x 50	50c.	2 60	p	45c.	2 30	p	40c.	2 10			
r	24 x 40	45c.	2 25	r	40c.	2 00	r	35c.	1 80			
s	24 x 50	55c.	2 75	s	50c.	2 50	s	45c.	2 25			
t	24 x 60	65c.	3 25	t	60c.	3 00	t	55c.	2 75			

Telegraphic Code. Catalogue Number.

*Raccot* 1289 Measured Covers. Any size up to 25 mm., circles or square, any thickness, from No. 1 to No. 3, 25 per cent. additional to regular catalogue price of the size and thickness desired.

BRANCHES: NEW YORK CITY AND CHICAGO.

# Object Slides—Counting Apparatus



No. 1290.

Standard Size, 25 x 75 mm. (1 x 3 inch.)

## Microscopical Object Slides.

WHITE GLASS, EDGES GROUND ROUND.

Telegraphic Code.	Catalogue Number.						Price.
<i>Racdam</i>	1290	Medium thickness.	-	-	-	Per gross,	\$ 85
<i>Racdor</i>	1292	Extra thin.	-	-	-	Per gross,	1 00

WHITE GLASS, SURFACES GROUND AND POLISHED PERFECTLY PLANE,  
EDGES GROUND ROUND.

<i>Racfal</i>	1294	Medium thickness.	-	-	-	Per gross,	4 00
<i>Racfern</i>	1296	Extra thin.	-	-	-	Per gross,	5 00

SPECIAL SIZES, WHITE GLASS, MEDIUM THICKNESS, EDGES GROUND ROUND.

Telegraphic Code.	Catalogue Number.	Size, mm.	Price.	
			Per Dozen.	Per Gross.
<i>Racef</i>	1298	25 x 44	...	\$1 00
<i>Racegle</i>	1300	25 x 50	...	1 20
<i>Racehug</i>	1302	38 x 75	...	2 00
<i>Raceil</i>	1304	50 x 75	...	3 00
<i>Racelm</i>	1306	( 25 x 75 ) (Concave Center)	60c.	...

## Cover-Glass Compressors.

<i>Racfena</i>	1340	Spring, of metal.	-	-	-	Per ten,	25
<i>Racfeos</i>	1842	Spring, of wood.	-	-	-	Per ten,	30

Cover-glass gauge, See Catalogue A.

# Counting Apparatus

**Counting Apparatus**, Esmarch's. For counting colonies of bacteria planted on the interior surface of test-tubes. To be held in the hand when in use. With adjustable clamp for holding the test-tubes; magnifier with focusing adjustment; sliding apertures of different sizes and adjustable metal background.

<i>Vallesm</i>	6280	Each,	-	-	-	-	-	-	4 00
----------------	------	-------	---	---	---	---	---	---	------

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

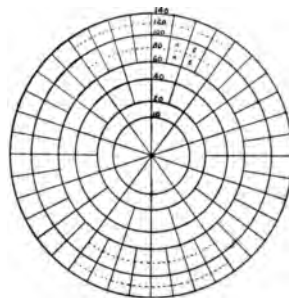
## Counting Apparatus

**Counting Apparatus, Esmarch's,** on support. Same construction as preceding, but mounted on a pillar supported on a japanned iron base. Two glass plates, black and white.

Telegraphic Code.	Catalogue Number.		Price.
Valmer	6282	Complete, - - - - -	\$6 75



No. 6284.



No. 6286.

**Counting Apparatus, Wolffhuegel's.** For counting colonies of bacteria on gelatine plates, in Petri or Pasteur dishes. Oak base with large drawer on rubber cushions. Circular iron corner-supports for ruled glass counting plates. Two background plates, black and white. Counting plates are of suitable glass with diagrams very accurately etched. Wolffhuegel's rulings for square plates are 1 cm. squares with diagonal rows of squares from corners ruled to 0.3 cm. squares within them. Surface of plate covered by rulings, 12 cm. square. Base: 27 cm. square, 3.5 cm. high.

Valming	6284	Complete, - - - - -	5 00
---------	------	---------------------	------

**Counting Plate, Jeffer's.** For use with the Wolffhuegel apparatus. Circular surface is divided into sectors which are subdivided in small spaces of equal areas. *See Journal of Applied Microscopy, Vol. I, No. 3.*

Valol...	6286	Each, - - - - -	2 00
----------	------	-----------------	------

**Counting Apparatus, Rafter's.** For counting organisms in water. Consists of glass plate with rectangular-shaped cell (50 mm. long, 20 mm. wide, 1 mm. deep), covers, disc micrometer ruled in squares and graduated pipette of 1 cc. capacity. Size of cell is such that when filled with 1 cubic centimeter of water, a square millimeter of surface represents a cubic millimeter of fluid. The disc micrometer is centered for placing upon diaphragm of eyepiece. We recommend its use with  $\frac{3}{8}$ -inch objective, and 1-inch eyepiece.

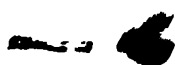
Valrer	6290	Complete, - - - - -	5 00
--------	------	---------------------	------

Counting apparatus, blood, see Blood Apparatus.

*[Faint, illegible text]*



*[Faint, illegible text]*



*[Faint, illegible text]*

BAUSH & Lomb Optical Co., ROCHESTER, N. Y.



# **Dehydrating Apparatus**



No. 1361.



No. 1362.

**Dehydrating Apparatus, Schultz's.** Specially adapted for hardening delicate tissues. The object is placed in a tube whose lower end is covered by an animal membrane. This tube is suspended from the neck of a bottle-shaped vessel and surrounded by another similar tube also diaphragmed.

Upon filling the tubes with a fluid of different density from that placed in the outer vessel, a slow osmotic action takes place, hardening the objects very gradually. Delicate tissues are not so apt to shrivel and collapse in this apparatus. For less sensitive objects, one of the tubes may be removed, when hardening proceeds much more rapidly. Diameter of inner tube, 10 mm.; capacity of vessel, 100 cc.

Telegraphic Code.	Catalogue Number.		Price.
<i>Racgad</i>	1360	Complete, - - - - -	\$1 50

**Dehydrating Apparatus, Thomas'.** Nine large glass tubes are supported in a vulcanite disc so as to be adjustable in height. This apparatus has a cover fitting air-tight. Diaphragms of animal membrane are held in the lower end of the tubes by nickeled metal clamps which may be removed by insertion of new diaphragms. Jar 20 cm. diam., 21 cm. deep. Tubes 1.5, 2.5, and 3 cm. diam.

<i>Racgo</i>	1362	Complete, - - - - -	7 50
--------------	------	---------------------	------

# Dissecting Apparatus



No. 1370.



No. 8500.

**Blow-Pipe.** Of nickeled metal, 120 mm. long.

Telegraphic Code.	Catalogue Number.									Price.
<i>Radab</i>	1370	Each,	-	-	-	-	-	-	-	\$ 15

**Brushes, Camel's Hair.** Small, quill handles.

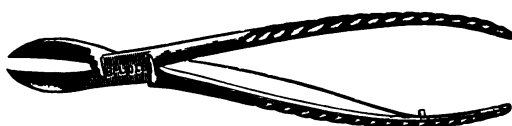
		Numbers, 1 to 100									
<i>Radace</i>	8500	Numbers,	A	B	C	D	E	F	G	H	
		1	2	3	4	5	6	7	8		
		Length of hair, mm.,	8	10	12	14	16	18	20	22	
		Per ten,	-	\$ 25	30	35	40	45	50	55	60

**Brushes, Camel's Hair.** Pointed, with silk binding, swan quill handles.

					A	B	C
<i>Radada</i>	8502	Length of hair, mm.,	-	-	18	22	25
		Per ten,	-	-	\$ 60	75	1 00

**Forceps, Artery (Serrafines).** Small, self-closing steel forceps with corrugated points and handles; nickeled. Length, 55 mm.

<i>Radafle</i>	1372	Each,	-	-	-	-	-	-	-	50
----------------	------	-------	---	---	---	---	---	---	---	----



No. 1374.

**Forceps, Bone-cutting.** Strong, accurately made blades; pinless lock-joint, holding the blades together firmly during use, and also permitting their separation for cleaning. The spring is also removable. Straight blades, length 200 mm.

<i>Radagan</i>	1374	Each,	-	-	-	-	-	-	-	2 50
----------------	------	-------	---	---	---	---	---	---	---	------

**Forceps, Bone-cutting.** Straight blades, length, 275 mm.

<i>Radaho</i>	1376	Each,	-	-	-	-	-	-	-	2 75
---------------	------	-------	---	---	---	---	---	---	---	------

**Forceps, Dissecting.** These instruments are all steel, excepting No. 1406, and are made in the best possible manner. The handles are corrugated and points roughened. Guide pins insure accurate closing together of the points.

\*\*\* Quality are perfectly finished in every detail. The \* quality are of the same grade of material, but are not so well finished.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

Dissecting Apparatus

Forceps, Dissecting (continued).



No. 1378.



No. 1380.



No. 1384.



No. 1394.



No. 1400.

Of steel,\*\*\* quality, nickel plated ; with corrugated handles and guide-pin :

Telegraphic Code.	Catalogue Number.	Description.	Length mm.	Finish of Points.	Price, Each.
<i>Radais</i>	1378	Fine ; straight points	115	Fine file-cut	40c.
<i>Radajm</i>	1380	Fine ; curved points	110	Fine file-cut	40c.
<i>Radako</i>	1382	Medium fine ; straight points	100	Fine file-cut	40c.
<i>Radali</i>	1384	Medium fine ; curved points	105	Fine file-cut	40c.
<i>Radana</i>	1386	Medium heavy ; straight points	115	Corrugated	50c.
<i>Radaop</i>	1388	Heavy ; straight points	115	Corrugated	50c.
<i>Radapa</i>	1390	Heavy ; two pins, straight points	130	Corrugated	60c.
<i>Radaro</i>	1392	Heavy ; two pins, straight points	145	Corrugated	65c.
<i>Radasa</i>	1394	Heavy ; straight points ; for vertebrate work This forceps has no guide-pin.	125	Corrugated	40c.

Of steel, \* quality, nickel plated, and smooth handles :

<i>Radear</i>	1400	Fine ; straight	110	Fine	25c.
<i>Radeim</i>	1402	Fine ; curved	120	Corrugated	30c.

Of steel, smooth handle :

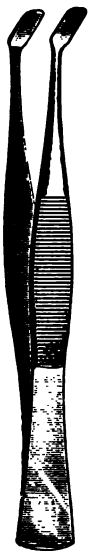
<i>Radeok</i>	1404	Blunt points	110	Roughened	15c.
---------------	------	--------------	-----	-----------	------

Of spring brass, nickel plated :

<i>Radeuf</i>	1406	Blunt	83		10c.
---------------	------	-------	----	--	------

BRANCHES : NEW YORK CITY AND CHICAGO.

# Dissecting Apparatus



No. 1410.



No. 1412.



No. 1414.

**Forceps, Cover Glass.** These forceps are of steel, \*\*\* quality finish and nicked. A cover lying on a plane surface is easily picked up by their blade-like points. Corrugated handles.

Telegraphic Code.	Catalogue Number.	Description.	Length mm.	Price, Each.
<i>Radfac</i>	1410	Bent blades	100	65c.
<i>Radfade</i>	1412	Thin, straight blades; guide-pin	120	60c.
<i>Radfafo</i>	1414	Self-closing; thin, bent blades	120	80c.

**Forceps, Cover-glass Staining.** Cover-glass preparations may be made with these forceps without soiling the hands, as they are so shaped that the fluids do not run back on the blades. The cover is held firmly and the forceps may be placed on the table in a vertical position.



No. 1418.

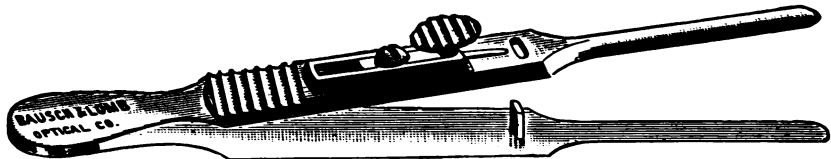
Cornet's forceps are made of one piece of spring brass. Only a small surface of the cover is grasped by the end of the blades. Nicked, 120 mm. long.

*Radfed*      1418      Each,      -      -      -      -      -      -      -      -      \$ 50

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# Dissecting Apparatus

## Forceps, Cover-glass Staining (continued).



No. 1420.

Ehrlich's forceps have long, flat blades which come together accurately, so that a cover is held firmly on the edge during the operation of making a blood spread. Length, 135 mm.

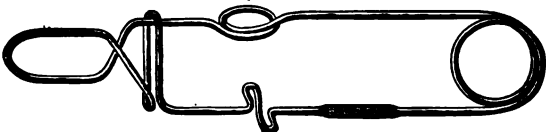
Telegraphic Code.	Catalogue Number.									Price.
<i>Radfehe</i>	1420	Each,	-	-	-	-	-	-	-	\$1 25



No. 1422.

Novy's forceps have a flat lower blade with a broad end and a thin, sharp edge; the upper blade is narrow, curved, and terminates in a point. The thin edge of the lower blade enables a cover to be easily picked up; the curving prevents capillary drainage, and the small contact of the upper blade on the specimen enables it to be thoroughly washed. These forceps are also fitted with a lock, which holds the points together when desired.

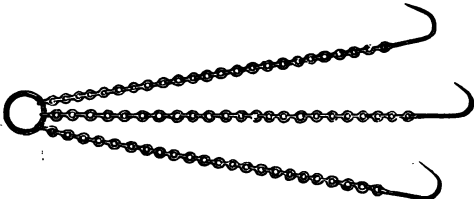
<i>Radfejo</i>	1422	Without lock.	-	-	-	-	-	-	Each,	75
<i>Radfeku</i>	1424	With lock,	-	-	-	-	-	-	Each,	1 00



No. 1426.

Stewart's forceps, being made of nickeled spring wire, are light and easily sterilized. A ring, not shown in the illustration, prevents the blades from spreading sideways.

<i>Radfelm</i>	1426	Each,	-	-	-	-	-	-	-	15
----------------	------	-------	---	---	---	---	---	---	---	----



No. 1430.

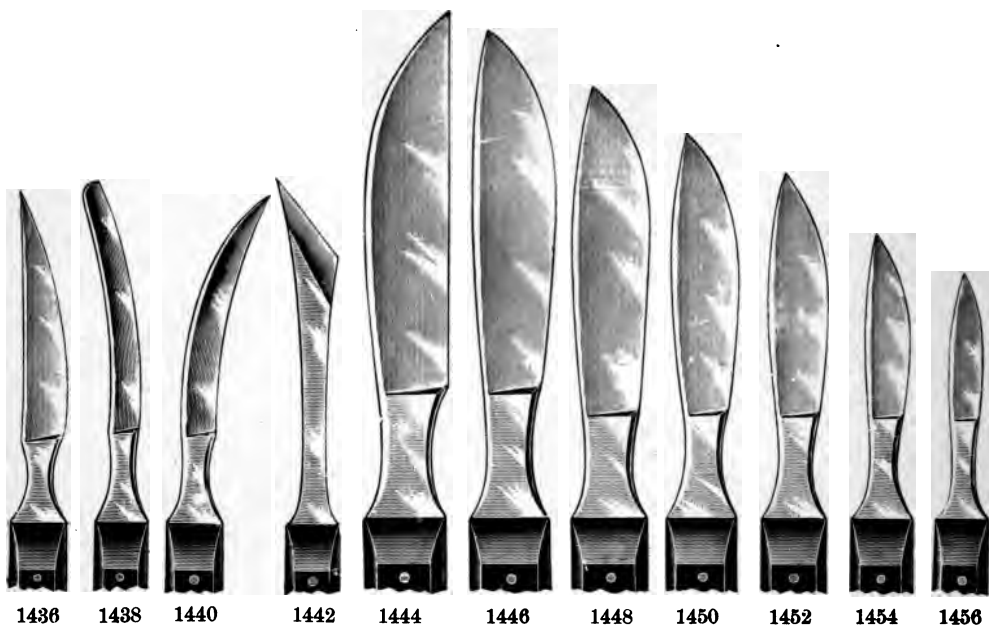
## Hooks and Chains. Hooks with sharp points, all nickeled.

<i>Radfik</i>	1430	Each,	-	-	-	-	-	-	-	20
---------------	------	-------	---	---	---	---	---	---	---	----

**Knife, Brain.** Blade very thin, of finest steel; ebony handle; length, 185 mm.; width, 26 mm.

<i>Radfilo</i>	1432	Each,	-	-	-	-	-	-	-	2 00
----------------	------	-------	---	---	---	---	---	---	---	------

Dissecting Apparatus



Actual Size and Shape of Knife and Scalpel Blades.

**Knives, Scalpels, and Razors.** These instruments are of the best grade steel, properly tempered to retain a good cutting edge. They are carefully finished in every detail. The all-steel scalpels can be easily cleaned and sterilized. Knife No. 1444, having a straight cutting edge, is designed for trimming paraffin blocks, cork, etc. The razors are especially made for sectioning. Each instrument bears our name on the blade.



Shape of Ebony Handle of Knives and Scalpels.

**Knives.** Blades of best steel,\*\*\* quality, set in ebony handles.

Telegraphic Code.	Catalogue Number.	Cutting Edge, mm.	Price, Each.
<i>Rudfude</i>	1436	35	35c.
<i>Radfufi</i>	1438	35	35c.
<i>Radfugo</i>	1440	35	35c.
<i>Radfuhm</i>	1442	10	35c.
<i>Radfuin</i>	1444	50	35c.

Dissecting Apparatus

Knives, Scalpels, and Razors (continued).

Scalpels. Blades of best steel,\*\*\* quality, set in ebony handles.

Telegraphic Code.	Catalogue Number.	Cutting Edge mm.	Price, Each.
<i>Radfule</i>	1446	50	35c.
<i>Radfum</i>	1448	45	35c.
<i>Radfuny</i>	1450	38	35c.
<i>Radfuok</i>	1452	32	35c.
<i>Radfupa</i>	1454	25	35c.
<i>Radfure</i>	1456	18	35c.

Scalpels. Entirely of steel (steel handles), \*\*\* quality, nickeled. These scalpels are easily cleaned and sterilized.

<i>Radfya</i>	1458	45	40c.
<i>Radfybe</i>	1460	38	40c.
<i>Radfyco</i>	1462	32	40c.
<i>Radfydi</i>	1464	25	40c.

Scalpels. Blades of best steel, \* quality, set in ebony handles.

<i>Radfyfc</i>	1468	45	25c.
<i>Radfygy</i>	1470	38	25c.
<i>Radfyhd</i>	1472	32	25c.
<i>Radfyil</i>	1474	25	25c.

Telegraphic Code.	Catalogue Number.		Price.
<i>Radfym</i>	1476	Oil Stones for sharpening scalpels.	Each, \$ 60



No. 1482.

Razors, Section. These razors have perfectly straight edges, and are tempered specially for sectioning; vulcanized handle.

<i>Radfymi</i>	1480	*** quality, concave on two sides, 100 mm., long.	Each,	1 50
<i>Radfyob</i>	1482	*** quality, folding handle, 75 mm. long.	Each,	1 25
<i>Radfypp</i>	1484	* quality, folding handle, 75 mm. long.	Each,	1 00
<i>Radfyou</i>	1486	*** quality, solid handle, 75 mm. long.	Each,	1 50
<i>Radfyst</i>	1488	*** quality, solid handle, 85 mm. long.	Each,	1 75
<i>Radfytz</i>	1490	*** quality, solid handle, 100 mm. long.	Each,	2 00

BRANCHES: NEW YORK CITY AND CHICAGO.

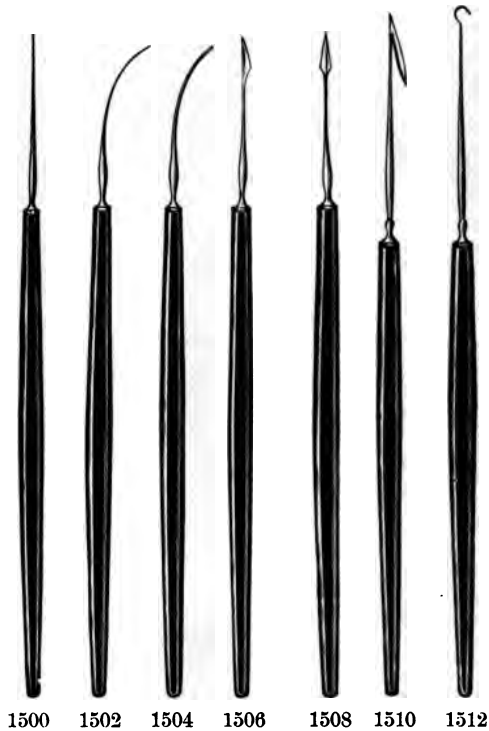
# Dissecting Apparatus

**Knives, Cartilage.** All steel; extra heavy and strong; corrugated handles; nicked all over, cutting edge, 45 mm.

Telegraphic Code.	Catalogue Number.		Price.
<i>Radgaf</i>	1492	*** quality finish. - - - - -	Each, \$ 40
<i>Radgeb</i>	1494	* quality finish, - - - - -	Each, 30

**Knives, Cartilage.** Ebony handle. (Prosecting knives.) The blades are extra heavy and extra thick at the back.

<i>Radgit</i>	1496	70 mm. cutting edge. - - - - -	Each, 1 50
<i>Radgum</i>	1498	90 mm. cutting edge, - - - - -	Each, 2 00



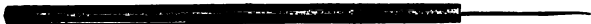
**Needles, Ebony Handle.** Knife steel is used in these delicate needles.

Telegraphic Code.	Catalogue Number.	Shape.	Length, mm.	Price, Each.
<i>Radhat</i>	1500	Straight, sharp	135	40c.
<i>Radhop</i>	1502	Curved, sharp	130	40c.
<i>Radhelt</i>	1504	Curved, blunt	130	40c.
<i>Radhir</i>	1506	Spear, single cutting edge	130	45c.
<i>Radhise</i>	1508	Spear, double cutting edge	125	45c.
<i>Radhop</i>	1510	Harpoon, two cutting edges	135	75c.
<i>Radhuk</i>	1512	Hook, fine and delicate	145	60c.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.



Dissecting Apparatus



No. 1516.

**Needles, Cedar Handle.** A cheap needle for class use, substantially made.

Telegraphic Code.	Catalogue Number.		Price.
<i>Radlas</i>	1516	Straight, per ten, - - - - -	\$ 30
<i>Radlato</i>	1518	Bent, per ten, - - - - -	30

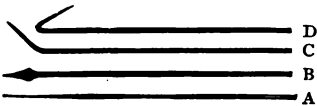
**Needle Holders.** Any needle may be used in these holders, as the clamp is adjustable; the steel needles illustrated are recommended. Bone handles.



No. 1520.



No. 1524.



No. 1530.

Telegraphic Code.	Catalogue Number.	Length of Holder, mm.	Price.	
			Holder Alone.	Holder and Four Needles.
<i>Radleh</i>	1520	85	5c.	...
<i>Radlin</i>	1522	85	...	10c.
<i>Radlop</i>	1524	110	10c.	...
<i>Radlud</i>	1526	110	...	15c.

**Needles, for above needle holders.** Of steel, length 50 mm.

Telegraphic Code.	Catalogue Number.	Style.	Price per Ten.
<i>Radmah</i>	1530	A	6c.
		B	10c.
		C	8c.
		D	8c.



No. 1532.

**Pan, dissecting,** of heavily tinned metal, with metal loops in the corners to which the limbs of animals are tied during dissection. Size: 28.5 x 23.5 x 2.5 cm.

<i>Radnap</i>	1532	Unlined, each, . - - - -	\$ 30
<i>Radnek</i>	1534	Lined with wax on bottom, each, - - - -	50

**Pan, of copper, tinned inside;** with corner hooks, chains and rings for holding down animals.

<i>Valvos</i>	6340	Each, - - - - -	2 50
---------------	------	-----------------	------

**Pans, dissecting,** see Agate-ware.

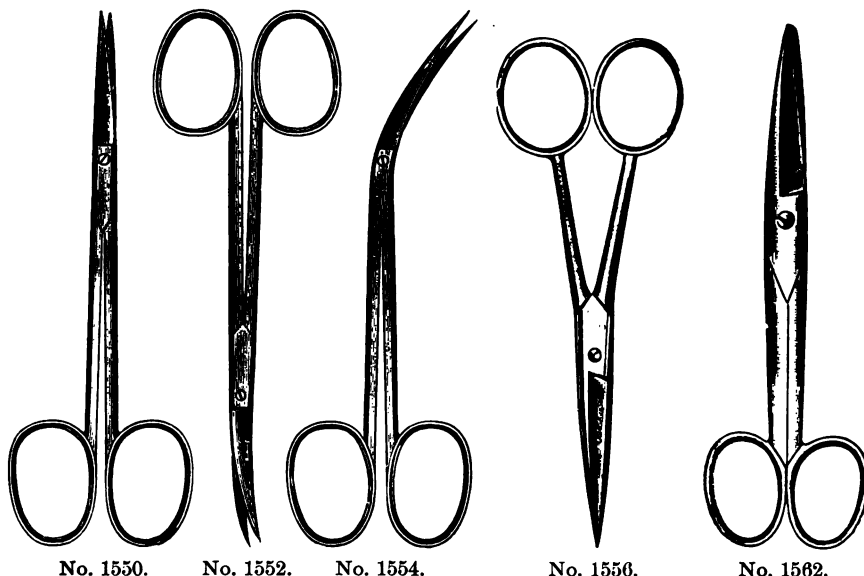
## Dissecting Apparatus

**Saw, Bone.** Total length, 200 mm.

Telegraphic Code.	Catalogue Number.		Price.
<i>Radmon</i>	1536	Each, - - - - -	\$4 00

**Scissors, Anatomical,** with lock joint, of steel, \*\*\* quality. Points are sharp, except those of No. 1546, one of which is rounded. These scissors do not have the objectionable oval locking-pin; the lugs of the joint hold the blades firmly during cutting and permit easy cleaning when the blades are taken apart.

Telegraphic Code.	Catalogue Number.	Length, mm.	Price, Each.
<i>Rafpal</i>	1540	105	\$ 75
<i>Rafpew</i>	1542	115	1 00
<i>Rafpib</i>	1544	125	1 25
<i>Rafpog</i>	1546	140	1 50



**Scissors, of steel; \*\*\* quality, nicked; 115 mm. long, excepting Nos. 1560 and 1562 (which are 140 mm).**

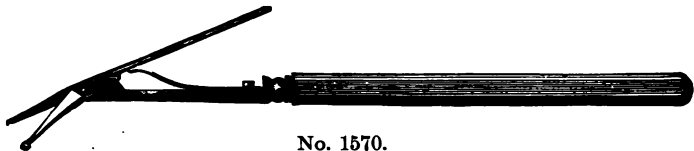
Telegraphic Code.	Catalogue Number.	Description.	Price, Each.
<i>Ragble</i>	1550	Fine; straight	\$ 50
<i>Ragcal</i>	1552	Fine; curved	60
<i>Ragdog</i>	1554	Fine; bent	60
<i>Ragef</i>	1556	Medium; straight	35
<i>Raggle</i>	1558	Medium; straight; probe point	75
<i>Raghag</i>	1560	Heavy; straight	50
<i>Ragih</i>	1562	Heavy; straight; one blunt point	75
<i>Raglas</i>	1564	Heavy; straight anatomical, 175 mm.	1 00

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

Dissecting Apparatus

Scissors (continued). Of steel, \* quality; 115 mm. long.

Telegraphic Code.	Catalogue Number.	Description.	Price, Each.
<i>Ragmof</i>	1566	Fine; straight	\$ 40
<i>Ragnem</i>	1568	Medium; straight (nickeled)	25



Scissors, very fine, dissecting. These scissors are very delicate and suited for the finest invertebrate dissecting. All the metal parts are nickeled. Handle of real ivory. Length of blades, 10 mm.; of whole instrument, 146 mm.

Telegraphic Code.	Catalogue Number.	Price.
<i>Rahabe</i>	1570 Each,	\$3 50



Section Lifters. Nos. 1582 and 1586 are of spring metal, nickeled; blades are very thin and flexible. The perforated lifter, 1588, is convenient for handling delicate specimens and skimming surfaces of liquids.

BRANCHES: NEW YORK CITY AND CHICAGO.

## Dissecting Apparatus

### Section Lifters (continued).

Telegraphic Code.	Catalogue Number.	Length, mm.	Width of Blades, mm.	Handle.	Price, Each.
<i>Rahafub</i>	1572	185	11 and 22	Metal	\$ 25
<i>Rahagca</i>	1574	175	22	Metal	15
<i>Rahahud</i>	1576	100	11	Metal	10,
<i>Rahakel</i>	1578	135	6 and 10	Ebony	40
<i>Rahaluf</i>	1580	127	4	Ebony	30
<i>Rahamas</i>	1582	135	10	Ebony	30
<i>Rahanuh</i>	1584	147	20	Ebony	35
<i>Rahapol</i>	1586	157	34	Ebony	40
<i>Rahary</i>	1588	160	18	Ebony	75



No. 1590.

**Seeker.** One end tapers to a blunt point, the curved end is sharply pointed, and its inner curve has a sharp edge. Length, 150 mm.

Telegraphic Code.	Catalogue Number.	Price.
<i>Rahote</i>	1590 Each, - - - - -	\$ 25

**Shears, Anatomical.** Very strong blades and heavy handles. Made of steel \*\*\* quality, nicked. Length, 180 mm.; length of blades, 70 mm.

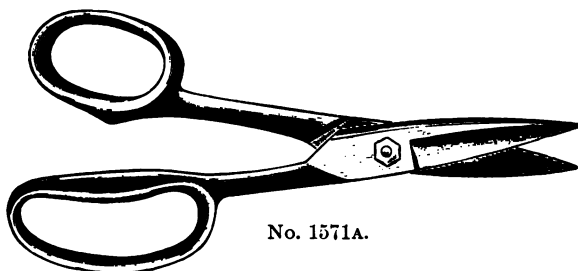
<i>Rahoux</i>	1592 Each, - - - - -	7 00
---------------	----------------------	------

**Shears, Cartilage.** These shears have short knife-shaped blades, a lock-joint, and corrugated handles with detachable spring between; of steel \*\*\* quality, nicked all over. Length, 230 mm.; blades, 60 mm.

<i>Rahove</i>	1594 Each, - - - - -	8 00
---------------	----------------------	------

**Shears, Cloth.** Nicked blades, japanned handles. Length, 280 mm.; length of blades, 155 mm.

<i>Rahaca</i>	1571 Each, - - - - -	1 25
---------------	----------------------	------



No. 1571A.

**Shears, Laboratory.** Strong throughout; bolt and nut joint, large handles. Blades are nicked, handles japanned. Length, 195 mm.; length of blades, 55 mm.

<i>Rahadm</i>	1571A Straight blades.	- - - - -	Each,	1 25
<i>Rahaen</i>	1571B Curved blades.	- - - - -	Each,	2 00

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N.

# Dissecting Apparatus



No. 10154.

**Spatulas**, flexible steel blades, wooden handles.

Telegraph Code.	Catalogue Number.		E	A	B	C	D
<i>Vejmig</i>	10154	Length of blade, mm.,	75	100	125	150	175
			\$ 25	25	30	35	45

**Spatulas**, of horn, 150 mm.

<i>Vejnot</i>	10156	Each,	-	-	-	-	\$ 20
---------------	-------	-------	---	---	---	---	-------



No. 1596.

**Tenaculum**. Flat, steel shank terminating in tapering sharp hook; riveted, ebony handle. Length of steel portion, 65 mm.

<i>Rahret</i>	1596	Each,	-	-	-	-	25
---------------	------	-------	---	---	---	---	----

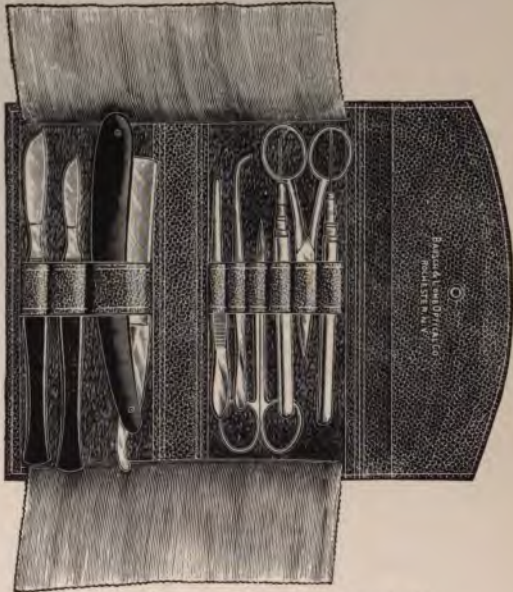
**Tenaculum**, all steel.

<i>Valyer</i>	6350	Each,	-	-	-	-	40
---------------	------	-------	---	---	---	---	----

## Dissecting Instruments in Sets



Style of One-fold Case (Sets Nos. 1600 and 1602).



Style of Two-fold Case (Sets Nos. 1604, 1606, 1608, 1610, 1612, and 1618).

The sets have been made up of the most desirable instruments for work in anatomy, botany, and histology.

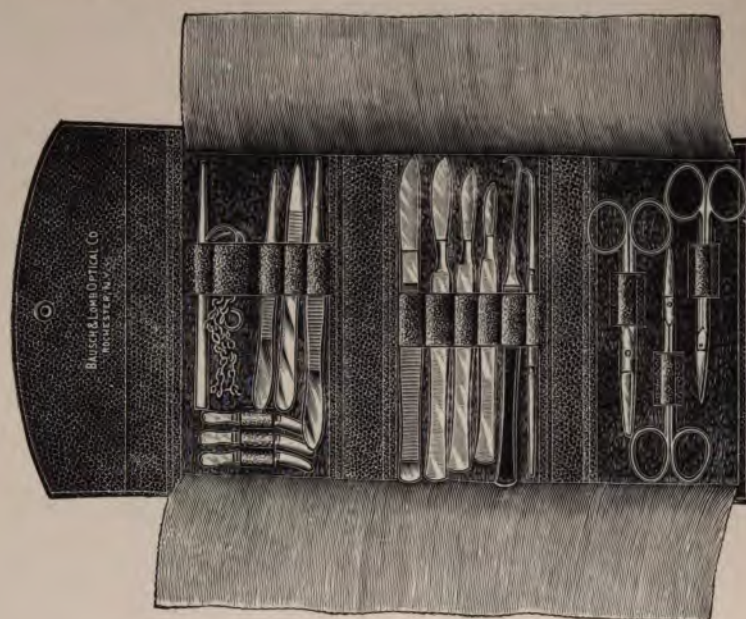
BRANCHES: NEW YORK CITY AND CHICAGO.



## Dissecting Apparatus

Sets (continued).

They are uniform in quality and finished in the neatest manner possible. The cases are our folding pocket form, the instruments thus occupying the least possible space and being thoroughly protected. Genuine Morocco leather is used in the best grade cases, best quality leatherette, almost equal to leather in strength and appearance, being employed for the cheaper sets. The inside of the cases is finished in velvet, cloth, or chamois, and properly re-enforced on the folding and outside edges. Separate loops for each instrument and protecting flaps keep the instruments in place and well protected. A button-clasp fastens the case when folded up.



Style of Three-fold Case (Sets Nos. 1614 and 1616).

Telegraphic Code.	No. of Set.	(Steel instruments are * quality.)	Price.
<i>Rakeel</i>	1600	1 Scalpel, No. 1470; ebony handle, edge 38 mm. 1 Scissors, No. 1568; medium, straight. 1 Forceps, No. 1404; blunt blades. 1 Forceps, No. 1402; fine, curved points. 2 Needle Holders, No. 1520, and Needles; length, 85 mm.	
		Price, complete set in lined leatherette one-fold case,	
		with protecting flaps, - - - - -	\$1 25
		(Steel instruments are *** quality.)	
<i>Rakens</i>	1602	1 Scalpel, No. 1450; ebony handle, edge 38 mm. 1 Scissors, No. 1556; medium, straight, nicked. 1 Forceps, No. 1384; medium fine, curved points. 1 Forceps, No. 1386; medium, straight points. 2 Needle Holders, No. 1524, and Needles; length, 110 mm.	
		Price, complete set in Morocco leather one-fold case,	
		with leather lining and protecting flaps, - - -	2 25

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Dissecting Apparatus

Telegraphic Code.	No. of Set.	(Steel instruments are * quality.)	Price.
<i>Rakepel</i>	1604	1 Scalpel, No. 1468; ebony handle, edge 45 mm. 1 Scalpel, No. 1474; ebony handle, edge 25 mm. 1 Scissors, No. 1568; medium, straight. 1 Forceps, No. 1394; heavy, straight, for vertebrate work. 1 Tenaculum, No. 1596. 1 Cartilage Knife, No. 1494; all steel, edge 45 mm. 1 Triple Chain and Hooks, No. 1430. 1 Blow-pipe, No. 1370.	
		Price, complete set in lined leatherette two-fold case, with chamois-skin protecting flaps,	\$2 25
<i>Rakist</i>	1606	(Steel instruments are *** quality.) 1 Scalpel, No. 1448; ebony handle, edge 45 mm. 1 Scalpel, No. 1454; ebony handle, edge 25 mm. 1 Scissors, No. 1556; medium, straight, nickeled. 1 Forceps, No. 1394; heavy, straight, for vertebrate work. 1 Tenaculum, No. 1596. 1 Cartilage Knife, No. 1492; all steel, edge 45 mm. 1 Seeker, No. 1590 1 Triple Chain and Hooks, No. 1430. 1 Blow-pipe, No. 1370.	
		Price, complete set in Morocco leather two-fold case, with velvet lining and chamois-skin protecting flaps,	4 00
<i>Rakitep</i>	1608	(Steel instruments are * quality.) 1 Scalpel, No. 1468; ebony handle, edge 45 mm. 1 Scalpel, No. 1474; ebony handle, edge 25 mm. 1 Scissors, No. 1566; fine weight, straight. 1 Scissors, No. 1568; medium weight, straight. 1 Forceps, No. 1402; fine, curved points. 1 Forceps, No. 1404; medium, blunt points. 2 Needle Holders, No. 1520, and Needles; length, 85 mm. 1 Section Razor, No. 1484, folding handle.	
		Price, complete set in lined leatherette two-fold case, with chamois-skin protecting flaps,	3 25
<i>Rakived</i>	1610	(Steel instruments are *** quality.) 1 Scalpel, No. 1448; ebony handle, edge 45 mm. 1 Scalpel, No. 1452; ebony handle, edge 32 mm. 1 Scissors, No. 1550; fine weight, straight, nickeled. 1 Scissors, No. 1556; medium fine, straight, nickeled. 1 Forceps, No. 1384; medium fine, curved points. 1 Forceps, No. 1386; medium heavy, straight points. 2 Needle Holders, No. 1524, and 2 Needles; length, 110 mm. 1 Section Razor, No. 1482, folding handle.	
		Price, complete set in Morocco leather two-fold case, with velvet lining and chamois-skin protecting flaps,	5 00
<i>Rakobe</i>	1612	(Steel instruments are *** quality.) 1 Scalpel, No. 1458; all steel, edge 45 mm. 1 Scalpel, No. 1462; all steel, edge 32 mm. 1 Scalpel, No. 1464; all steel, edge 25 mm. 1 Scissors, No. 1550; fine, straight. 1 Scissors, No. 1560; heavy, straight, 140 mm. long. 1 Forceps, No. 1394; for vertebrate work. 1 Forceps, No. 1388; heavy, straight, 120 mm. long. 1 Cartilage Knife, No. 1492; all steel, edge 45 mm.	
		(Set continued on next page.)	

## Dissecting Apparatus

Telegraphic Code.	No. of Set.		Price.
<i>Rakobe</i>	1612	1 Tenaculum, No. 1596. 1 Seeker, No. 1590. 1 Triple Chain and Hooks, No. 1430. 1 Blow-pipe, No. 1370.	
(Continued.)			

Price, complete set in Morocco leather two-fold case,  
with velvet lining and chamois-skin protecting flaps, \$5 00

(Steel instruments are \*\*\* quality.)

<i>Rakocm</i>	1614	1 Scalpel, No. 1458; all steel, edge 45 mm. 1 Scalpel, No. 1462; all steel, edge 32 mm. 1 Scalpel, No. 1464; all steel, edge 25 mm. 1 Scissors, No. 1550; fine, straight, nickeled. 1 Scissors, No. 1552; fine, curved. 1 Scissors, No. 1558; medium, straight, probe point. 1 Forceps, No. 1394; for vertebrate work. 1 Forceps, No. 1386; medium heavy, straight, 115 mm. long. 1 Forceps, No. 1390; heavy, straight, 130 mm. long. 1 Cartilage Knife, No. 1492; all steel, edge 45 mm. 1 Tenaculum, No. 1596. 1 Seeker, No. 1590. 1 Triple Chain and Hooks, No. 1430. 1 Blow-pipe, No. 1370. 3 Serrafines (Artery Forceps), No. 1372.	
---------------	------	--	--

Price, complete set in Morocco leather three-fold case,  
with velvet lining and chamois-skin protecting flaps, 7 25

### Johns Hopkins University Anatomical Set.

Sets Nos. 1616 and 1618 are used in the laboratories of Johns Hopkins University, and are selected with a view of securing the best quality, most effective apparatus regardless of cost. The knives, forceps, scissors, probe, hook, etc., are special shapes not found in the market, and made to order for these sets only. They are not listed elsewhere in this catalogue.

(Steel instruments are \*\*\* quality.)

<i>Rakode</i>	1616	1 Scalpel, No. 1448; ebony handle, edge 45 mm. 1 Scalpel (Special); ebony handle, edge 38 mm. 1 Scalpel (Special); ebony handle, edge 32 mm. 1 Scalpel (Special); ebony handle, edge 25 mm. 1 Scissors (Special); heavy, straight, very fine metal; blades, 44 mm.; total length, 127 mm. 1 Forceps (Special); heavy, straight, coarsely serrated points; length, 127 mm. 1 Probe (Special); coarse, all steel, octagonal handle; length, 152 mm. 1 Dissecting Hook (Special); double end, two points on each end.	
---------------	------	---	--

Price, complete set in Morocco leather three-fold case,  
with velvet lining and chamois-skin protecting flaps, 5 00

### Johns Hopkins University Histological Set.

(Steel instruments are \*\*\* quality.)

<i>Rakoeph</i>	1618	1 Scalpel (Special); handle, edge 25 mm. 1 Scissors No. 1550; fine, straight. 1 Forceps (Special); fine and heavy; straight, smooth points; very accurately adjusted. 1 Lancet Needle (Special); double blade, ebony handle, 2 Teasing Needles (Special); straight, ebony handle. 1 Section Lifter, No. 1584; blade, 20 mm.; ebony handle.	
----------------	------	---	--

Price, complete set in Morocco leather two-fold case,  
with velvet lining and chamois-skin protecting flaps, 3 75

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.



## Files—Filtering Materials

**Files.** Best quality.

Telegraphic Code.	Catalogue Number.		A	B	C	D	E	F
<i>Vamdar</i>	8704	Flat.						
		Length, mm.,	75	100	125	150	175	200
		Each,	\$ 15	20	25	30	35	40
<i>Vamces</i>	8702	Round or Rat Tail, with fine point.						
		Length, mm.,	75	100	125	150	175	200
		Each,	\$ 12	15	20	25	30	35
<i>Vamble</i>	8700	Triangular. For cutting glass tubing, etc.						
		Length, mm.,	75	100	125	150	175	200
		Each,	\$ 15	18	20	25	30	35

**File Handles.** Best quality.

<i>Vamel</i>	8706	Per ten,	-	-	-	-	-	\$ 40
--------------	------	----------	---	---	---	---	---	-------



No. 6360  
on faucet.



No. 8720.



No. 8750.



No. 8756.

## Filters and Filtering Materials

**Filters, Berkefeld.** These filters are germ-proof: all waters, even the foulest, passed through them being freed from organisms. The filtering cylinder is infusorial earth. The impurities are deposited on the surface of the cylinder, which may be kept active by an occasional brushing.

Berkefeld Laboratory: Nicked and threaded for a 19 mm. hose bib-faucet. A two-way cock can be used which enables either filtered or unfiltered water to be obtained without removing the filter from the faucet, and also raises the filter so that there is more room underneath for buckets, etc. Prices include filter only.

			A	B	C
<i>Vanah</i>	6360	Capacity, litres } 1 in 50 sec. 1 in 40 sec. 1 in 30 sec.			
		18 kilos pressure, }			
		Size, cm.,	15 x 8	23 x 6	29 x 6
		Each, net,	\$4 00	6 00	8 00
<i>Vanba</i>	6362	Two-way stop-cock; each, net,	-	-	2 00
<i>Vanfle</i>	6364	Wrench. For opening the filters; each, net,	-	-	50

BRANCHES: NEW YORK CITY AND CHICAGO.

## Filters and Filtering Materials

**Filter, Berkefeld.** Cylinders for renewal in No. 6360.

Telegraphic Code.	Catalogue Number.	Size,	-	-	-	-	-	A	B	C
<i>Vangruid</i>	6366	Each, <i>net</i> ,	-	-	-	-	-	\$1 50	2 00	2 50

**Filter, Berkefeld, Physician.** With hand pump for use in sick rooms where a small quantity of pure water is wanted for immediate use. Capacity, one litre in 8 minutes.

<i>Vanhle</i>	6370	Complete, in case, <i>net</i> ,	-	-	-	-	\$8 00
---------------	------	---------------------------------	---	---	---	---	--------

**Filter, Berkefeld, Medical or Laboratory.** For use where liquids are to be sterilized and beef tea, infusions or antitoxin are to be made. It yields a clear, sterile blood-serum and eliminates all fat from milk so as to make a perfectly clear milk-serum. Price includes mantel and cylinder.

		Size,	-	-	-	-	A Small	B Medium	C Large
<i>Vanire</i>	6372	Each, <i>net</i> ,	-	-	-	-	\$2 00	4 25	5 25

**Filters, Hot Water.** For maintaining a high temperature during filtration.

<i>Vamjos</i>	8720	Enclosure for glass funnel mounted on three legs with water chamber from the side.	-	Each,	4 00
---------------	------	--	---	-------	------

<i>Vamkum</i>	8722	Copper water chamber supported by a circular Bunsen burner. A glass funnel is enclosed, and the support is adjustable for height. Diameter of funnel, 150 mm.	-	-	-	Each,	4 00
---------------	------	---	---	---	---	-------	------

Filters, see Plain Glassware and Porcelain-ware.

### Filter Asbestos.

<i>Vample</i>	6380	<i>a.</i> Filaments, long fibre.	-	-	Per 500 grams,	1 00
		<i>b.</i> Filaments, short fibre,	-	-	Per 500 grams,	45
		<i>c.</i> Powder,	-	-	Per 500 grams,	25
		<i>d.</i> Wool,	-	-	Per 500 grams,	35

### Filter Bags, Felt.

			A	B	C	D
<i>Vamsity</i>	6382	Capacity, litres,	4	5	6.6	8
		Size, cm.,	28 x 30	33 x 38	35 x 40	40 x 48
		Each,	\$1 75	2 00	2 25	3 25

Filter flasks, funnels, etc., of glass, see Glassware.

Filter funnels, porcelain, see Porcelain-ware.

### Filter Glass Powder.

<i>Vamtil</i>	6384	Per 500 grams,	-	-	-	-	-	15
---------------	------	----------------	---	---	---	---	---	----

### Filter Glass Wool.

<i>Vamug</i>	6388	<i>a.</i> Fine,	-	-	-	-	Per 25 grams,	80
		<i>b.</i> Coarse,	-	-	-	-	Per 25 grams,	80
		<i>c.</i> Free from lead,	-	-	-	-	Per 25 grams,	1 00

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Filters and Filtering Materials

**Filter Paper, Bausch & Lomb.** Filter paper put up under our own trade-mark. It has been found by tests to be equal to higher-priced papers.

**Filter Paper, B. & L., Grey, round.** Tough and durable.

Telegraphic Code.	Catalogue Number.		A	B	C	D	E	F	G
<i>Vample</i>	8753	Diameter, cm.,	15	19	25	33	40	45	50
		Per 100 filters, \$	25	35	45	65	90	1 15	1 35

**Filter Paper, B. & L., Gray, in sheets.** Tough and durable. Size, 52 x 42 cm.

<i>Vamgal</i>	8754	Per hundred,	-	-	-	-	-	-	\$1 10
---------------	------	--------------	---	---	---	---	---	---	--------

**Filter Paper, B. & L., White, round.**

Filter Paper, B. & L., White, round.		A	B	C	D	E	F		
<i>Vamem</i>	8750	Diam., cm., -	-	5.5	7	9	11	12.5	15
		Per 100 filters, -	\$	10	12	15	20	25	30
		G	H	J	K	L	M		
		Diam., cm., -	-	18.5	24	27	32	38.5	50
		Per 100 filters, -	\$	35	50	65	80	1 00	1 75

**Filter Paper, B. & L., White, folded.**

Filter Paper, B. & L., White, folded.				A	B	C	D	E
<i>Vamne</i>	8751	Diam., cm.,	- -	12.5	15	18.5	24	27
		Per 100 filters,	-	\$ 50	60	70	85	1 00

**Filter Paper, B. & L., White, in sheets.** Size 48 x 48 cm.

<i>Vamol</i>	8752	Per hundred,	-	-	-	-	-	1 50
--------------	------	--------------	---	---	---	---	---	------

**Filter Paper, Schleicher & Schuell, No. 575:** Hard and thin, very rapid and specially adapted for use with filter pumps, for caustic liquids and general bacteriological work. Packages of 100 filters, cut round.

			A	B	C	D	E	F
<i>Vamsch</i>	6390	Diam., cm., -	5.5	7	9	11	12.5	15
		Per 100 filters, \$	75	80	1 10	1 20	1 40	1 65

**Filter Paper, S. & S., No. 588:** Folded and finely grained; made of pure paper free from chlorine and sulphur, which permits quick and clear filtration. Size F is made from extra heavy paper. Packages of 100 filters, cut round.

			A	B	C	D	E	F
<i>Vamslei</i>	8764	Diam., cm., -	12.5	18.5	24	32	38.5	50
		Per 100 filters, \$	40	55	80	1 35	1 75	2 75

**Filter Paper, S. & S., No. 595:** Thin, grainless; a white paper specially adapted for filtering waters, tinctures, and salt solutions; also for qualitative analysis and quantitative determinations by which it would not be converted into ashes. Packages of 100 filters, cut round.

			A	B	C	D	E	F
<i>Vamuel</i>	8756	Diam., cm., -	5.5	7	9	11	12.5	15
		Per 100 filters, \$	15	20	25	30	35	40
		Diam., cm., -	G 18.5	H 24	J 27	K 32	L 38.5	
		Per 100 filters, \$	50	75	1 00	1 25	1 50	

## Filters and Filtering Materials

Filter, Berkeley. (Plaintiff for removal in No. 6500.)

<i>Vanguard</i>	<i>Windsor</i>	<i>Dixie</i>	-	-	-	-	-	A	B	C
			-	-	-	-	\$1.50	2.00	2.50	

**Filter, Berkeley, Physician.** With hand pump for use in sick rooms where a small quantity of pure water is wanted for immediate use. Capacity, one liter in 8 minutes.

<i>Paultie</i>	6870	Complete, in case, net.	-	-	-	-	\$x 00
----------------	------	-------------------------	---	---	---	---	--------

**Filter, Berkefeld, Medical or Laboratory.** For use where liquids are to be sterilized and beef tea, infusions or antitoxin are to be made. It yields a clear, sterile blood-serum and eliminates all fat from milk so as to make a perfectly clear milk-serum. Price includes mantle and cylinder.

					A	B	C
<i>Number</i>	0372	Size,	-	-	Small	Medium	Large
		Each, <i>net</i> ,	-	-	\$2 00	4 25	5 25

**Filter, Hot Water.** For maintaining a high temperature during filtration.

Part No.	8720	Enclosure for glass funnel mounted on three legs with water chamber from the side. - Each,	4 00
----------	------	---	------

<b>Instrument</b>	<b>8722</b>	Copper water chamber supported by a circular Bunsen burner. A glass funnel is enclosed, and the support is adjustable for height. Diameter of funnel, 150 mm. - - - Each,	<b>4 00</b>
-------------------	-------------	---	-------------

**Filters, see Plain Glassware and Porcelain-ware.**

**Filter Anhydrous.**

Filaments	0080	A. Filaments, long fibre, - - -	Per 500 grams,	1 00
		A. Filaments, short fibre, - - -	Per 500 grams,	45
		" Powder, - - - - -	Per 500 grams,	25
		" Wool, - - - - -	Per 500 grams,	35

Filter Bag, belt.

	A	B	C	D
Capacity, litres,	4	5	6.6	8
Size, cm.,	28 x 30	33 x 38	35 x 40	40 x 48
Each,	21.75	24.00	22.25	32.25

[illegible]

THE UNITED STATES OF AMERICA

**Miss Clara Fowler.**

11-11-44 11-11-44 11-11-44 11-11-44

1/1/54 (date) 10/24/54.

*[Illegible handwritten notes]*

## Filters and Filtering Materials

**Filter Paper, Bausch & Lomb.** Filter paper sold by Bausch & Lomb has their own trade-mark. It has been found by tests to be equal to the best of European papers.

**Filter Paper, B. & L. Grey, round.** **Telegraphic Code.** **Catalogue Number.**

Telegraphic Code.	Catalogue Number.	Diameter, cm.	12.5	15	18	21	24	27
<i>Vampl</i>	\$754	Per 100 filters.	\$ 25	30	35	40	45	50

**Filter Paper, B. & L. Gray, in sheets.** **Size 52 x 42 cm.**

<i>Vamgal</i>	\$754	Per hundred.	\$ 10	12	14	16	18	20
---------------	-------	--------------	-------	----	----	----	----	----

**Filter Paper, B. & L. White, round.**

<i>Vamen</i>	\$750	Diam., cm.	12.5	15	18	21	24	27
		Per 100 filters.	\$ 25	30	35	40	45	50
		Diam., cm.	12.5	15	18	21	24	27
		Per 100 filters.	\$ 25	30	35	40	45	50

**Filter Paper, B. & L. White, folder.**

<i>Vanne</i>	\$751	Diam., cm.	12.5	15	18	21	24	27
		Per 100 filters.	\$ 25	30	35	40	45	50

**Filter Paper, B. & L. White, in sheets.** **Size 52 x 42 cm.**

<i>Vamol</i>	\$752	Per hundred.	\$ 10	12	14	16	18	20
--------------	-------	--------------	-------	----	----	----	----	----

**Filter Paper, Schleicher & Schuell, No. 575.** Hard and strong, and specially adapted for use with filter pumps, for caustic liquids and general bacteriological work. Packages of 100 filters, cut round.

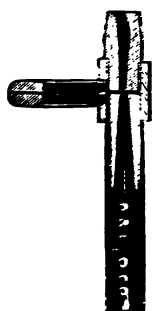
<i>Vamsch</i>	6390	Diam., cm.	12.5	15	18	21	24	27
		Per 100 filters.	\$ 75	80	85	90	95	100

**Filter Paper, S. & S. No. 588.** Folder and sheet, graded, made of pure paper free from chlorine and sulphur, which permits quick and efficient filtration. Size F is made from extra heavy paper. Packages of 100 filters cut round.

<i>Viam, cm.</i>	12.5	15	18	21	24	27
\$ 40	55	60	65	70	75	80

Thin, grainless, and free from chlorine and salt solutions. It is the only filter by which a round filter can be made round.

## Filters—Gauze



No. 6394.



No. 8904.



No. 8906.



No. 8724.

**Filter Pump or Aspirator, Chapman's Water.** For exhausting air, operating blast-lamp or blow-pipe by the flow of water and rapid filtration by vacuum with the Berkefeld or other filter. It works well where ordinary water-pressure is available and is arranged with check-valve for holding the vacuum. Made of brass.

Telegraphic Code.	Catalogue Number.		A	B
<i>Vankle</i>	6394	Capacity under 27 kilos pressure. cu. cm..	150	550
		Each, - - - - -	\$1 50	3 00

**Filter Pump, Geissler's.** Of glass.

<i>Vanasz</i>	8904	Each, - - - - -	\$ 60
---------------	------	-----------------	-------

**Filter Pump, Muencke's.** Of glass. with conical outlet.

<i>Vanmck</i>	8906	Each, - - - - -	1 20
---------------	------	-----------------	------

**Filter Racks.** Constructed so as to fold and be used as squeezers; made of galvanized iron wire.

		A	B	C	D
8724	Diam., mm., - - -	125	175	225	300
	Each, - - - - -	\$ 30	40	50	60

**Gauze, Brass.** For general use.

Gauze, Brass. For general use.			A	B	C	D	E	F	G
Vedrug	9834	Mesh, - - -	10	20	30	40	60	80	100
		Per 30 ctm. sq., -	50	50	55	60	65	90	1 30

**Gauze, Brass.** Of correct thickness and mesh for heating beakers, etc., over a flame.

over a flame.			A	B	C	D	E
<i>Vedser</i>	9836	Size, mm. square,	- 75	100	125	150	200
		Per ten pieces,	- \$ 75	1 00	1 50	2 00	4 00

**Gauze, Copper.** For combustion.

<b>Gauze, Copper. For combustion.</b>		A	B	C	D	
<i>Vedtan</i>	9838	Mesh, - - - -	30	36	50	64
		Per 30 ctm. sq., - -	\$ 55	55	60	70

**Gauze, Iron.** For supporting dishes, etc.

		A	B	C	D	E	
<i>Vedum</i>	9840	Size, mm. square, -	100	125	150	175	200
		Per ten pieces, -	\$ 50	75	1 00	1 25	1 50

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N.

## Plain Glassware

For graduated glassware, see No. 9010 et seq.



No. 8916.



No. 8922.



No. 8932.



No. 8930.



No. 8938.

### Beakers, Bohemian Glass. Griffin's low form with lip.

Telegraphic Code.	Catalogue Number.	Numbers,	A 0000	B 000	C 00	D 0	E 1	F 2	G 3
<i>Vaoc</i>	8916	Capacity, cc.,	15	20	30	60	100	150	200
		Each, - -	\$ 12	13	14	15	16	18	20
		Numbers,	H 4	J 5	K 6	L 7	M 8	N 9	
		Capacity, cc., -	280	330	550	800	1100	1500	
		Each, - -	\$ 22	25	30	40	50	60	

### Beakers, Bohemian Glass; nested. Griffin's low form with lip.

<i>Vaobe</i>	8918	Numbers,	A 0000 to 0	B 0000 to 1	C 0000 to 2	D 0000 to 3
		Per Nest,	\$ 50	65	80	1 00
		Numbers,	E 0000 to 4	F 0000 to 5	G 0000 to 6	
		Per Nest, - -	\$1 20	1 40	1 70	
		Numbers,	H 0000 to 7	J 0000 to 8	K 0000 to 9	
		Per Nest, - -	\$2 00	2 50	3 00	

### Beakers, Jena Glass. Griffin's low form with lip.

<i>Vaocu</i>	8920	Numbers,	A 1	B 2	C 3	D 4	E 5
		Capacity, cc., -	50	100	150	250	400
		Each, - -	\$ 20	25	30	40	50
		Numbers,	F 6	G 7	H 8	J 9	
		Capacity, cc., -	600	800	1000	1300	
		Each, - -	\$ 60	70	80	90	

### Beakers, Ground Label.

*Vaodi* 8922 For 15 to 330 cc. beakers with label pencil for notes, add four cents to above prices; for 450 to 1500 cc. beakers, add six cents.

**Bell-glasses, Open Top.** Of clear, white glass with perfectly ground flange for air-tight connections.

<i>Vaoga</i>	8932		A	B	C	D	E
		Diameter, mm.,	50	90	100	150	200
		Height, mm., -	155	170	155	200	300
		Each, - -	\$ 50	60	75	1 00	1 25

INCHES: NEW YORK CITY AND CHICAGO.

## Glassware (Plain)

**Bell-glasses, High form.** For covering microscopes, etc.; perfectly ground flange for air-tight connections, and knob. (See cut, page 83.)

Telegraphic Code.	Catalogue Number.						A	B
<i>Vaohill</i>	8936	Diameter, mm.,	-	-	-	-	200	225
		Height, mm.,	-	-	-	-	350	425
		Each,	-	-	-	-	\$1 50	2 00

**Bell-glasses, Low form.** Useful for covering culture media receptacles, etc. Of heavy, clear, white glass; with perfectly ground flange for air-tight connections, and knob. (See cut, page 83.)

							A	B	C	D	E
<i>Vaokly</i>	8938	Diameter, mm.,	-	-	-	-	80	105	130	155	185
		Height without knob, mm.,	-	-	-	-	80	105	130	180	235
		Each,	-	-	-	-	\$ 50	60	75	1 00	1 25

**Bell-glasses, Low form, large.** Of heavy, clear, white glass; with perfectly ground flange for air-tight connections, and knob.

							A	B	C	D	E	F
<i>Vaolel</i>	6400	Diameter, mm.,					150	175	200	225	250	300
		Height without knob, mm.,					100	140	125	150	175	240
		Each,	-	-	-	-	\$ 75	1 00	1 25	1 50	2 00	2 50



No. 8950.



No. 8958.



No. 8966.



No. 8970.



No. 8980.

**Bottles, Flint. Narrow mouth.**

							A	B	C	D	E
<i>Vaomol</i>	8950	Capacity, cc.,					15	30	50	75	100
		Per ten,					\$ 20	25	30	35	40
		Capacity, cc.,					150	250	375	500	1000
		Per ten,					\$ 50	60	70	90	1 15

**Bottles, Flint. Wide mouth.**

							A	B	C	D	E
<i>Vaonen</i>	8958	Capacity, cc.,					15	30	50	75	100
		Per ten,					\$ 20	25	30	35	40
		Capacity, cc.,					150	250	375	500	1000
		Per ten,					\$ 50	60	75	1 00	1 25

**Bottles, Flint. Extra wide mouth.**

							A	B	C
<i>Vaopof</i>	8966	Capacity, cc.,	-	-	-	-	30	60	120
		Per ten,	-	-	-	-	\$ 30	35	50

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.



## Glassware (Plain)

**Bottles, Flint.** With mushroom glass stopper; narrow mouth.

Telegraphic Code.	Catalogue Number.		A	B	C	D	E
<i>Vaorm</i>	8970	Capacity, cc.,	15	30	50	75	100
		Per ten,	\$ 60	75	90	1 00	1 25
		Capacity, cc.,	F 150	G 250	H 375	J 500	K 1000
		Per ten,	\$1 50	1 75	2 00	2 25	2 75

**Bottles, Flint.** With mushroom glass stopper; wide mouth.

			A	B	C	D	E
<i>Vaosey</i>	8980	Capacity, cc.,	15	30	50	75	100
		Per ten,	\$ 70	80	90	1 00	1 25
		Capacity, cc.,	F 150	G 250	H 375	J 500	K 1000
		Per ten,	\$1 50	1 75	2 00	2 50	3 00

**Bottles, Green.** For acids, with narrow mouth and flat-head glass stopper.

			A	B	C	D	E	F	G
<i>Vaorow</i>	8978	Capacity, cc.,	125	250	500	1000	2000	4000	8000
		Per ten,	\$1 25	1 50	1 75	2 00	3 00	4 00	8 00

**Bottles, Ground Label.**

*Vaorx* 8988 For 15 to 250 cc. bottles, with label for pencil notes, add thirty cents to above prices for ten bottles; for 375 to 8000 cc., add fifty cents for ten bottles.



No. 9012.



No. 9014.



No. 9016.

**Bottles, Balsam.** With glass balsam dropper, which fits loosely in the neck, and glass cap ground on. Capacity, 45 cc.

*Vapad* 9012 Each, - - - - - \$ 25

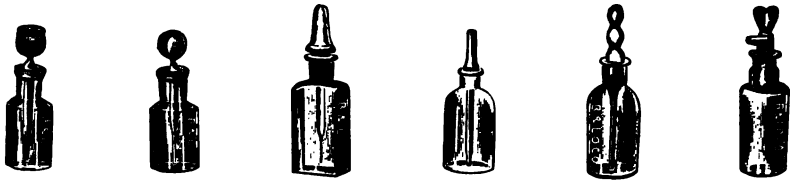
**Bottles, Balsam.** With triangular glass balsam dropper, which touches the neck in three points only and prevents gumming, and glass cap ground on. Capacity, 30 cc.

*Vapbob* 9014 Each, - - - - - 45

**Bottles, Balsam.** With loose glass rod, balsam dropper, glass cap and very wide mouth.

			A	B
<i>Vapcad</i>	9016	Capacity, cc.,	30	60
		Each,	\$ 25	30

# **Glassware (Plain)**



No. 9020.      No. 9022.      No. 9024.      No. 9026.      No. 9028.      No. 9036.

**Bottles, Dropping.** With glass pipette stopper and rubber cap to control fluid ejection. Capacity, 15 cc.

Telegraphic Code.	Catalogue Number.								Price.
<i>Vapdug</i>	9020	Each,	-	-	-	-	-	-	\$ 20

**Bottles, Dropping.** With glass pipette stopper and perforated bulb to control fluid ejection. Capacity, 15 cc.

<i>Vapeped</i>	9022	Each,	-	-	-	-	-	-	25
----------------	------	-------	---	---	---	---	---	---	----

**Bottles, Dropping.** With Barnes pipette stopper. Capacity, 30 cc.

<i>Vapfurn</i>	9024	Each,	-	-	-	-	-	-	10
----------------	------	-------	---	---	---	---	---	---	----

									A	B
<b>Bottles, Dropping.</b>	With straight finger pipette.									
<i>Vapgar</i>	9026	Capacity, cc.,	-	-	-	-	-	-	30	50
		Each,	-	-	-	-	-	-	\$ 15	20

**Bottles, Dropping.** With bulb-shaped finger pipette, without rubber bulb.

									A	B	C
<i>Vapham</i>	9028	Capacity, cc.,	-	-	-	-	-	-	15	30	50
		Each,	-	-	-	-	-	-	\$ 10	15	20

**Bottles, Dropping.** With bulb-shaped finger pipette, with rubber bulb.

									A	B	C
<i>Vapib</i>	9030	Capacity, cc.,	-	-	-	-	-	-	15	30	50
		Each,	-	-	-	-	-	-	\$ 12	18	24

**Bottles, Dropping.** Of amber glass, with bulb-shaped finger pipette, without rubber bulb.

									A	B
<i>Vapjar</i>	9032	Capacity, cc.,	-	-	-	-	-	-	30	50
		Each,	-	-	-	-	-	-	\$ 15	20

**Bottles, Dropping.** Of amber glass, with bulb-shaped finger pipette, and rubber bulb.

									A	B
<i>Vapku</i>	9034	Capacity, cc.,	-	-	-	-	-	-	30	50
		Each,	-	-	-	-	-	-	\$ 18	24

**Bottles, Dropping.** With ground glass stopper having side tube which permits the escape of contents drop by drop when the bottle is turned horizontally. A half turn of the stopper hermetically closes the bottle.

									A	B
<i>Vaplap</i>	9036	Capacity, cc.,	-	-	-	-	-	-	30	50
		Each,	-	-	-	-	-	-	\$ 15	20

## Glassware (Plain)



No. 9038.



No. 9040.



No. 9050.



No. 9052.



No. 9054.

**Bottles, Dropping.** With hollow pipette and glass cap ground on.

Telegraphic Code.	Catalogue Number.		A	B
<i>Vapmay</i>	9038	Capacity, cc.,	30	60
		Each,	\$ 40	50

**Bottle, Reagent Stock.** For holding stock reagents which are to be distributed in small quantities. A detachable glass funnel is ground into the neck and serves as a pour-out. Fitted with glass cap ground on. Capacity, 500 cc.

<i>Vapnela</i>	9040	Each,	-	\$ 60
----------------	------	-------	---	-------

**Bottles, Washing.** With glass tubes and rubber stopper.

			A	B	C	D
<i>Vapog</i>	9050	Capacity, cc.,	150	250	500	1000
		Each,	\$ 35	45	60	75

**Bottles, Washing.** With glass tubes and stopper ground in.

			A	B	C	D
<i>Vapp</i>	9052	Capacity, cc.,	150	250	500	1000
		Each,	\$ 75	1 00	1 25	1 50

**Bottles, Washing.** With glass tubes fitted with stop-cocks, and with glass stopper. For volatile fluids.

			A	B	C	D
<i>Vaprah</i>	9054	Capacity, cc.,	150	250	500	1000
		Each,	\$2 25	2 50	2 75	3 00



No. 9062.



No. 9066.

**Bottles, Weighing.** Low form with flat bottom and glass stopper.

			A	B	C	D
<i>Vaprew</i>	9062	Diam., mm.,	25	30	35	45
		Height, mm.,	40	50	60	80
		Each,	\$ 25	30	35	40

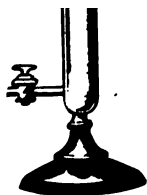
**Bottles, Woulff.** With two necks.

			A	B	C
<i>Vapsor</i>	9064	Capacity, cc.,	250	500	1000
		Each,	\$ 40	60	80

**Bottles, Woulff.** With three necks.

			A	B	C
<i>Vaptem</i>	9066	Capacity, cc.,	250	500	1000
		Each,	\$ 50	70	90

BRANCHES: NEW YORK CITY AND CHICAGO.



No. 1728.



No. 9130.



No. 9132.



No. 9134.



No. 9136.

**Cylinder, Reagent.** With glass stop-cock and stopper; on wooden base.  
Capacity, 80 cc.

Telegraphic Code.	Catalogue Number.		Price.
<i>Ratoat</i>	1728	Each, - - - - -	\$2 00

**Dessicators, Patented form.** The whole interior may be utilized in this form. The cover is ground air-tight and is arranged so that it cannot slip off, enabling the dessicator to be readily carried about. The drying material is placed inside the space formed by the widened mouth and the lower part which extends into it.

			A	B
<i>Vapum</i>	9130	Inside chamber: { Diam., mm., -	80	150
		{ Height, mm., -	80	150
		Each, - - - - -	\$3 00	4 00

**Dessicators, Scheibler's.** With cover ground on air-tight, and knob.

			A	B	C
<i>Vapvos</i>	9132	Diam., mm., - - - -	100	120	150
		Each, - - - - -	\$ 75	1 00	1 25

**Dessicators, Scheibler's.** With stop-cock and hook ground into an air-tight cover.

			A	B	C
<i>Vapwum</i>	9134	Diam., mm., - - - -	100	120	150
		Each, - - - - -	\$2 00	2 25	2 50

**Dessicators, Fresenius'.** With ground glass cover and brass tripod for holding dishes, etc.

			A	B	C
<i>Vapyam</i>	9136	Diam., mm., - - - -	80	100	120
		Each, - - - - -	\$1 50	1 75	2 00



No. 9138.



No. 9140.



No. 6410.

**Dialysers.** This apparatus consists of an open-top belljar suspended in a glass jar.

		A	B	C	D	E
<i>Vaqab</i>	9138	Capacity, litres,	2	4	6	8
		Each, - - - - -	\$1 25	1 50	2 50	3 50

## Glassware (Plain)

**Dishes, Crystallization.** Of clear, white glass with straight slides, flat bottom, and polished edges.

Telegraphic Code.	Catalogue Number.		A	B	C	D	E	F	G	H
<i>Vagbed</i>	9140	Diam., mm.,	110	130	150	170	190	240	270	300
		Height, mm.,	54	58	62	66	70	70	70	70
		Each, -	\$ 30	35	40	45	50	85	1 25	1 75

**Dishes, Culture.** For moulds, consisting of a shallow dish with cover ground on and a funnel ground in the cover. When the funnel is filled with cotton, the apparatus may be aerated without danger of contaminating the contents. Diameter of dish, 80 mm.

<i>Vagcar</i>	6410	Each,	-	-	-	-	-	-	-	\$ 75
---------------	------	-------	---	---	---	---	---	---	---	-------

**Dishes, culture, on microscopical slide, see Culture Slide.**



No. 9142.



No. 9146.



No. 9150.

**Dishes, Evaporating.** Of best Bohemian glass, with round bottom and pour-out.

pour-out.				A	B	C	D	E	F	G
<i>Vaqden</i>	9142	Diam., mm.,	-	50	60	80	100	120	140	160
		Each, -	-	\$ 12	15	20	25	30	40	50

**Dishes, Evaporating; nested.**

			A	B	C	D
<i>Vaqel</i>	9144	Sizes, mm.,	50 to 100	50 to 120	50 to 140	50 to 160
		Per nest,	\$ 70	1 00	1 35	1 80

**Dishes, evaporating, of porcelain, see Porcelain-ware.**

**Dishes, Pasteur.** A double dish, similar to the Petri dish, but thinner-walled and shallower. Diam., 100 mm.; depth, 5 mm.

<i>Vagfar</i>	9146	Each,	-	-	-	-	-	-	-	25
---------------	------	-------	---	---	---	---	---	---	---	----

**Dishes, Pasteur.** With tops and bottoms polished; extra fine. Diam., 100 mm.

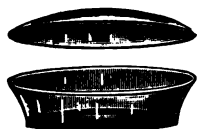
<i>Vaggra</i>	9148	Each,	-	-	-	-	-	-	-	50
---------------	------	-------	---	---	---	---	---	---	---	----

**Dishes, Petri (or Esmarch's).** A double dish having the upper one fitting loosely over the lower. Made of the best thin, white, German glass.

			A	B	C	D	E
<i>Vaghill</i>	9150	Diam., mm.,	50	80	100	120	150
		Each, -	\$ 15	20	25	35	50

**Dishes, Petri.** With tops and bottoms polished, extra fine. Diam., 100 mm.

<i>Vaqion</i>	9152	Each,	-	-	-	-	-	-	-	50
---------------	------	-------	---	---	---	---	---	---	---	----



No. 9154.



No. 9156.



No. 9158.

BRANCHES: NEW YORK CITY AND CHICAGO.

## Glassware (Plain)

**Dishes, Preparation.** With convex cover ground on air-tight for permanent preservation or without sealing for ordinary purposes. Made of clear, white glass. (See cut on page 89.)

Telegraphic Code.	Catalogue Number.		A	B
<i>Vagjus</i>	9154	Diam., mm., - - - - -	80	100
		Height, mm., - - - - -	40	44
		Each, - - - - -	\$ 25	30

**Dishes, Preparation.** With loosely fitting cover, which, while not making the dish perfectly air-tight, fits on a flange so as to make it sufficiently tight for most purposes. Made of clear, white glass. (See cut on page 89.)

			A	B	C	D	E
<i>Vagkle</i>	9156	Diam., mm., - -	50	60	70	90	105
		Each, - - -	\$ 20	24	28	32	40

**Dishes, Preparation.** With cover having knob and fitting air-tight on a broad flange. Made of clear, white glass. (See cut on page 89.)

			A	B	C	D
<i>Vaglet</i>	9158	Diam., mm., - - -	50	65	80	100
		Height, mm., - - -	30	35	40	45
		Each, - - - - -	\$ 40	50	60	75



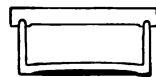
No. 9160 A.



No. 9160 B.



No. 9160 C.



Section of 9160.

**Dishes, Stender.** This dish is straight-walled and has the top surface accurately ground to fit in a groove (see section) of the cover, which is perfectly fitted. Superior to the ordinary Stender dish; guaranteed. Made of clear, white glass, free from imperfections.

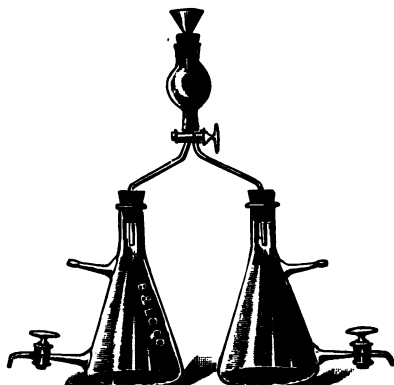
			A	B	C	D
<i>Vagmes</i>	9160	Diam., mm., - - -	36	50	60	60
		Height, mm., - - -	24	30	35	90
		Each, - - - - -	\$ 12	15	18	20



No. 6416.



No. 6418.



No. 9169.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Glassware (Plain)

**Filters, Chamberland's.** Consists of a glass receiver, a heavy flask with side neck, and an unglazed porcelain tube, through the walls of which the fluid is filtered. The receiver has a nozzle-shaped extremity at its lower end to which the filter tube is connected by rubber tubing. The Chapman Filter Pump (which may be operated by ordinary water pressure) No. 6394A, is suitable for use with this filter.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vaqnef</i>	6416	a. Without Filter Pump, - - - - -	\$2 50
		b. With Filter Pump No. 6394A, - - - - -	4 00

**Filters, Kitasato's.** Same as the preceding, except for the shape of receiver.

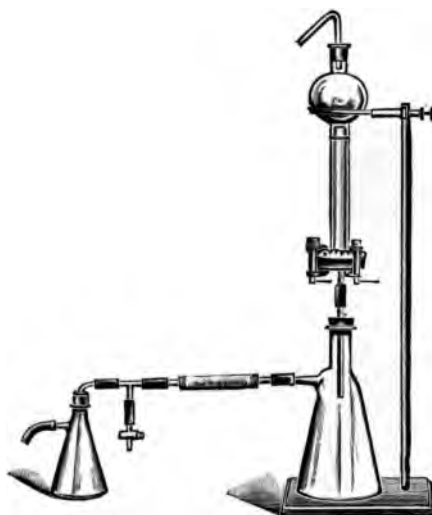
<i>Vagnix</i>	6418	a. Without Filter Pump, - - - - -	2 50
		b. With Filter Pump No. 6394A, - - - - -	4 00

**Filters, Double Exhaust.** For obtaining separate filtrates. Consists of two exhaust flasks connected with a glass reservoir by a two-way cock. The filter funnel is attached air-tight to the reservoir and the exhaust used for filtering, if desired.

<i>Vagnuy</i>	9169	Complete, - - - - -	8 00
---------------	------	---------------------	------



No. 6420.



No. 6424.

**Filters, Muencke's.** This apparatus has a porcelain cylinder and is suitable for filtering fluids, under pressure. It is easily sterilized and has a capacity of 150 cc. The side tube is closed by a glass stopper.

<i>Vaqomen</i>	6420	Complete, - - - - -	3 00
----------------	------	---------------------	------

**Filters, Novy's.** Consists of a long glass cylinder connected at its upper end with a receiver; and at its lower provided with a flange properly ground to make an air-tight joint by means of clamps to another flange connecting with a flask below for receiving the filtrate. The entrance of bacteria into the apparatus is prevented by a sand filter-tube. There is a stop-cock and a flask to admit air and to collect any back-flow from the aspirator, respectively, between the filter-tube and aspirator connections.

<i>Vagnov</i>	6424	Complete with apparatus stand, - - - - -	10 00
---------------	------	--	-------

**Filters of infusorial earth,** see Filters, Berkefeld.

## Glassware (Plain)



No. 9170.



No. 9172.



No. 9174.

**Filter Tubes.** For filtering acids through asbestos, glass wool, etc.

Telegraphic Code.	Catalogue Number.		A	B	C
<i>Vaqot</i>	9170	Length, mm.,	150	200	250
		Each, - - - - -	\$ 15	20	25

**Filter Tubes, Fresenius'.** With conical outlet.

<i>Vaqpof</i>	9172	Each, - - - - -	-	-	\$ 25
---------------	------	-----------------	---	---	-------

**Filter Tubes, Fresenius'.** With straight outlet.

<i>Vaqquef</i>	9174	Each, - - - - -	-	-	25
----------------	------	-----------------	---	---	----



No. 9176.



No. 9178.



No. 9180.

**Filter Flasks.** With side neck, and funnel ground in.

			A	B	C
<i>Vaqref</i>	9176	Capacity, cc.,	250	500	1000
		Each, - - - - -	\$1 75	2 00	2 50

**Filter Flasks, Erlenmeyer form.** Of heavy glass with side neck.

			A	B	C
<i>Vaqslen</i>	9178	Capacity, cc.,	250	500	1000
		Each, - - - - -	\$ 35	45	60

**Filter Flasks, Bunsen form.** Of heavy glass with side neck.

			A	B	C
<i>Vaqtun</i>	9180	Capacity, cc.,	250	500	1000
		Each, - - - - -	\$ 35	45	60



No. 6430.



No. 6434.

**Flasks, Culture, Billings'.** With ground stopper and cap for gelatine and serum.

			A	B	C
<i>Vaquibil</i>	6428	Capacity, cc.,	100	250	500
		Each, - - - - -	\$ 60	75	1 00

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N.Y.



# **Glassware (Plain)**

**Flasks, Culture, Chamberland's (or Pasteur's).** For Fluids. With cap ground on.

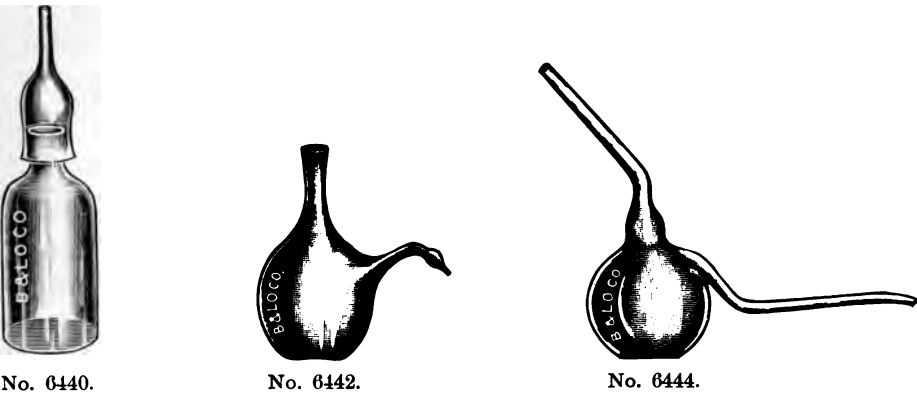
Telegraphic Code.	Catalogue Number.		A	B	C
<i>Vaqoult</i>	6430	Capacity, cc.,	- - - 50	100	200
		Each,	- - - \$ 40	50	60
With cap ground on and side neck:					
<i>Vaqwec</i>	6432	Capacity, cc.,	- - - 50	100	200
		Each,	- - - \$ 50	60	75

		<b>Flasks, Culture. Erlenmeyer's (or Koch's).</b> For bread and gelatine.			
			A	B	C
<i>Vaqwock</i>	6434	Capacity, cc.,	- - - 50	75	100
		Each,	- - - \$ 10	15	20



**Flasks, Culture, Fernbach's antitoxine.** For diphtheria cultures. Capacity, 2000 cc.

<i>Vaqyam</i>	6436	<i>a.</i> Plain.	- - - - -	Each,	\$1 50
		<i>b.</i> One side neck.	- - - - -	Each,	2 50
		<i>c.</i> Two side necks.	- - - - -	Each,	3 00



ANCHES: NEW YORK CITY AND CHICAGO.

# Glassware (Plain)

## Flasks, Culture, Freudenreich's. With cap ground on. (Cut on page 93.)

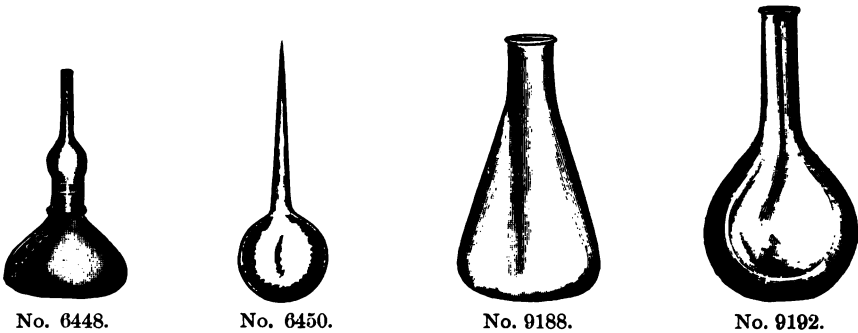
Telegraphic Code.	Catalogue Number.		A	B	C	D
<i>Vaqzax</i>	6440	Capacity, cc.,	- 25	50	100	200
		Each, - - -	\$ 30	40	50	60
With cap ground on and side neck:						
<i>Vaqzey</i>	6441	Capacity, cc.,	- 25	50	100	200
		Each, - - -	\$ 40	50	60	75

## Flasks, Culture, Listers'. For serum. (See cut on page 93.)

			A	B	C
<i>Varal</i>	6442	Capacity, cc.,	- - - 500	750	1000
		Each, - - -	\$ 75	1 00	1 25

## Flasks, Culture, Pasteur's pipette. (See cut on page 93.)

			A	B	C	D
<i>Varbep</i>	6444	Capacity, cc.,	125	250	500	1000
		Each, - - -	\$ 40	60	80	1 00



## Flasks, Culture, Miquel's. With broad, flat base and ground cap; for use with bacterial counting apparatus.

			A	B	C
<i>Varcam</i>	6448	Capacity, cc.,	- - - 50	75	100
		Each, - - -	\$ 50	60	75

## Flasks, Culture, Sternberg's bulb. For serum; a thin flask with neck drawn to a point, and made of clearest white glass. Capacity, 25 cc.

<i>Vares</i>	6450	Each, - - -	- - - - -	\$ 15
--------------	------	-------------	-----------	-------

## Flasks, Erlenmeyer form. Of best Bohemian glass.

			A	B	C	D	E	F	G
<i>Vardleu</i>	9188	Capacity, cc.,	50	100	250	500	1000	2000	4000
		Each, \$	10	15	20	25	40	50	90

## Flasks, Erlenmeyer form. Of Jena glass.

			A	B	C	D	E	F	G
<i>Varey</i>	9190	Capacity, cc.,	50	100	300	450	600	1100	2000
		Each, \$	18	20	30	40	50	70	90

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

**Glassware (Plain)**

**Flasks, Koch form. Flat bottom. Of best Bohemian glass. (See cut on page 94.)**

Telegraphic Code.	Catalogue Number.		A	B	C	D	E	F	G	H
<i>Varfoh</i>	9192	Capacity, cc.,	50	100	250	500	1000	2000	4000	8000
		Each.	\$ 08	10	15	20	30	45	70	1 00

**Flasks, Koch form. Of Jena glass. Flat bottom.**

				A	B	C	D	E	F
<i>Vargen</i>	9194	Capacity, cc.,	-	50	100	300	500	1000	2000
		Each,	-	\$ 18	20	30	45	65	90

**Flasks, Koch form. Round bottom. Of best Bohemian glass.**

			A	B	C	D	E	F	G
<i>Varhat</i>	9196	Capacity, cc.,	50	100	250	500	1000	2000	4000
		Each, -	\$ 08	10	15	20	30	45	70

**Flasks, Koch form. Of Jena glass. Round bottom.**

			A	B	C	D	E	F	
<i>Varig</i>	9198	Capacity, cc.,	-	50	100	300	500	1000	2000
		Each, - -	\$	18	20	30	45	65	90

**Flasks, with ground label. Any of the above, from 9188 to 9198, can be supplied with ground label.**

<i>Varjas</i>	9202	Extra, each,	-	-	-	-	-	-	05
---------------	------	--------------	---	---	---	---	---	---	----



No. 9212.



No. 9218.



No. 9222.

**Funnels, Plain. Of heavy, clear, white glass.**

			A	B	C	D	E	F	
<i>Varkip</i>	9210	Capacity, cc.,	-	85	200	300	600	1000	1200
		Diameter, mm.,	-	80	100	120	150	200	200
		Each, - -	\$	10	12	15	20	25	35

**Funnels, Plain. Of heavy, clear, white glass, with stem ground to a point. Angle of sides, 60°.**

			A	B	C	D	E	F	G
<i>Varleg</i>	9212	Capacity, cc.,	30	60	125	250	500	1000	2000
		Diameter, mm.,	50	80	100	120	150	170	200
		Each, -	\$ 10	15	20	25	30	40	50

**Funnels, Plain. Of heavy, clear, white glass, with ground top, and stem ground to a point. Angle of sides, 60°.**

			A	B	C	D	E	F	G
<i>Varmat</i>	9214	Capacity, cc.,	30	60	125	250	500	1000	2000
		Diameter, mm.,	50	80	100	120	150	170	200
		Each, -	\$ 15	20	25	30	40	50	60

## Glassware (Plain)

**Funnels, Ribbed.** Of heavy, clear, white glass. For rapid filtering.

Telegraphic Code.	Catalogue Number.		A	B	C	D	E	F	G
<i>Varner</i>	9216	Capacity, cc.,	50	80	180	350	500	1200	2000
		Diameter, mm.,	65	75	100	130	150	185	220
		Each, -	\$ 08	10	15	20	25	30	40

**Funnels, Ribbed.** Of heavy, clear, white glass, with stem ground to a point and sides at an angle of 60°. A rapid funnel. (See cut on page 95.)

			A	B	C	D	E	F	G
<i>Varod</i>	9218	Capacity, cc.,	30	60	125	250	500	1000	2000
		Diameter, mm.,	50	80	100	120	150	170	200
		Each, -	\$ 10	15	20	25	30	40	50

**Funnels, Ribbed.** Of heavy, clear, white glass, with ground top, stem ground to a point, and sides at an angle of 60°. (See cut on page 95.)

			A	B	C	D	E	F	G
<i>Vargor</i>	9220	Capacity, cc.,	30	60	125	250	500	1000	2000
		Diameter, mm.,	50	80	100	120	150	170	200
		Each, -	\$ 15	20	25	30	40	50	60

**Funnels, Fluted.** A new form, made of heavy glass. The most rapid filter funnel made.

filter funnel made.				A	B	C	D
<i>Varref</i>	9222	Capacity, cc.,	- -	60	125	500	2000
		Diameter, mm.,	-	70	100	160	200
		Each, - -	- -	\$ 35	50	75	1 25



No. 9224.



No. 9226.



No. 9228.

**Funnels, Separatory.** Of clear, white glass, with stop-cock and sides at 60°.

at 60°.				A	B	C
<i>Varstels</i>	9224	Capacity, cc.,	- - -	175	1200	3500
		Diameter, mm.,	- - -	100	180	250
		Each, - - -	- - -	\$1 50	2 00	3 00

**Funnels, Separatory.** Pear-shaped. With glass stopper ground in, and Geissler stop-cock.

			AAA	AA	A	B	C	D	E
<i>Varus</i>	9226	Capacity, cc.,	30	60	125	250	500	1000	2000
		Each, -	\$ 80	90	1 00	1 25	1 50	3 00	3 50

**Funnels, Victor-Meyer.** For condensing the evaporation from dishes. With stopper for releasing the condensation.

With stopper for releasing the condensation.						A	B
<i>Varoem</i>	9228	Outside diam., mm.,	-	-	-	160	200
		Each,	-	-	-	\$1 00	1 25

Funnels, see Agate-ware and Porcelain-ware.

## Glassware (Plain)



No. 0454.



No. 9240.



No. 9244.



No. 9246.

**Funnel Attachment.** For use in fitting test tubes, etc. It avoids contact of fluid with the surface of vessel being filled, so that the latter remains clean for the insertion of cotton plugs.

Telegraphic Code.	Catalogue Number.		Price.
<i>Varwat</i>	6454	Complete, - - - - -	\$ 50

**Funnel Tubes, Straight.** With conical top.

<i>Varylen</i>	9240	Length, mm.,			A	B	C
					200	300	400
		Each, - - - - -			\$ 10	12	15

**Funnel Tubes, Straight.** With thistle-shaped top.

<i>Varzax</i>	9242	Length, mm.,			A	B	C
					200	300	400
		Each, - - - - -			\$ 08	10	12

**Funnel Tubes, Looped.** With thistle-shaped top.

<i>Vasa</i>	9244	Length, mm.,			A	B	C
					200	300	400
		Each, - - - - -			\$ 10	15	20

**Funnel Tubes, Looped.** With conical top.

<i>Vasbled</i>	9246	Length, mm.,			A	B	C
					200	300	400
		Each, - - - - -			\$ 10	15	20



No. 9248.



No. 9256.



No. 9250.



No. 9252.



No. 9254.

**Funnel Tubes, Looped (continued).**

<i>Vascog</i>	9248	With one bulb and thistle-shaped top.	Length,	
		300 mm. - - - - -	Each,	20

BRANCHES: NEW YORK CITY AND CHICAGO.

# Glassware (Plain)

## Funnel Tubes, Looped (continued).

Telegraphic Code.	Catalogue Number.		Price.
<i>Vascue</i>	9256	With one bulb and conical top. Length, 300 mm. - - - - - Each,	\$ 20
<i>Vasdef</i>	9250	With two bulbs and thistle-shaped top. Length, 300 mm. - - - - - Each,	25
<i>Vasel</i>	9252	With two bulbs arranged near thistle-shaped top. Length, 300 mm. - - - - - Each,	30
<i>Vasfun</i>	9254	With four bulbs arranged in pairs on either side of stem. Length, 300 mm. - - - - - Each,	35



No. 6460.



No. 9270.



No. 9290.



No. 9292.

**Gas Bottles.** For use in expansion of gases; with ground glass stopper and funnel tube.

		A	B	C
<i>Vasib</i>	6460	Capacity, cc., - - - - - 250	500	1000
	Each,	\$1 00	1 25	1 50

**Gas Generator, Kipp's.** With safety tube and glass stop-cock.

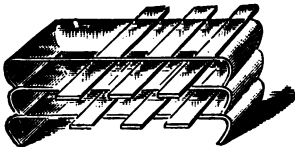
		A	B	C	D
<i>Vasjug</i>	9270	Capacity of each receiver, cc., 250	500	1000	2000
	Each,	\$3 50	4 00	5 00	7 00

**Gas Wash Flasks, Allihn's.**

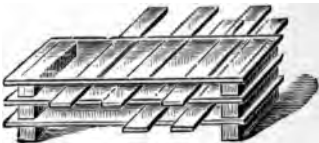
		A	B	C
<i>Vaskal</i>	9290	Capacity, cc., - - - - - 250	500	1000
	Each,	\$1 50	1 75	2 00

**Gas Wash Flasks, Drechsel's.**

		A	B	C	D	E
<i>Vaslec</i>	9292	Capacity, cc., 100	150	200	250	500
	Each,	\$ 60	75	85	1 00	1 25



No. 6466 A.



No. 6466 B.



No. 9300.

**Glass Benches.** For supporting culture plates. Size 13 x 5.5 x 1 cm.

<i>Vasmeb</i>	6466	a. Of a single piece with edges bent under.	Each,	20
		b. With polished edges and cross-pieces cemented on.	Each,	25

## Glassware (Plain)

**Glass Boxes** with cover ground on air-tight. These boxes are well made of the best quality white glass. Size, 10 x 4 x 4 cm.

Telegraphic Code.	Catalogue Number.									Price.
<i>Varnox</i>	9300	Each,	-	-	-	-	-	-	-	\$1 25

**Glass Plates, Culture.** Of extra white glass. Size, 13 x 8.5 cm.

<i>Vasop</i>	6470	<i>a.</i> Edges not ground.	-	-	-	Per ten,	40
		<i>b.</i> Edges ground.	-	-	-	Per ten,	50

**Glass Plates, Square.** Plain or matted on one side; edges not ground.

<i>Vaspox</i>	9302		A	B	C	D	E	F
		Size, mm.,	75	100	125	150	175	200
		Each,	\$ 05	06	08	10	15	20
				G	H	J	K	L
		Size, mm.,	-	225	250	300	375	500
		Each, -	-	\$ 25	30	35	40	50

**Glass Plates, Circular.** Plain or matted on one side. Edges not ground.

<i>Vasquaf</i>	9306		A	B	C	D	E	F	G	H	J	K
		Diam., mm.,	50	75	100	125	150	175	200	225	250	300
		Each,	\$ 05	06	08	10	15	20	25	30	35	40

**Glass Plates, Circular.** Edges ground. Plain or matted on one side.

<i>Vasray</i>	9308		A	B	C	D	E	F	G	H	J	K
		Diam., mm.,	50	75	100	125	150	175	200	225	250	300
		Each,	\$ 08	10	12	15	20	30	35	45	50	60

**Glass Plates, Plain.** Of heavy plate-glass, square, edges ground.

<i>Vassob</i>	9304		A	B	C	D	E	F
		Size, mm.,	75	100	125	150	175	200
		Each,	\$ 15	20	25	30	40	50
				G	H	J	K	L
		Size, mm.,		225	250	300	375	500
		Each,	\$ 60		75	1 00	1 50	2 00

**Glass Rod.** Of soft glass that is easily melted. Diameters from 2 to 12 mm.

<i>Vasved</i>	9324	Per 500 grams,	-	-	-	-	-	-	40
---------------	------	----------------	---	---	---	---	---	---	----

**Glass Stirrers.** Of glass rod, various sizes.

<i>Vaswun</i>	9326	Per 500 grams,	-	-	-	-	-	-	50
---------------	------	----------------	---	---	---	---	---	---	----

**Glass Tubing.** Of the best, soft, German quality, specially adapted for melting and blowing in the laboratory. In lengths of 1.5 meters and outside diameters from 2 to 50 mm.

<i>Vastod</i>	9320	Per 500 grams,	-	-	-	-	-	-	40
---------------	------	----------------	---	---	---	---	---	---	----

**Glass Tubing.** Of hard, Bohemian glass, known as combustion tubing. In length of 1.5 meters and outside diameters from 4 to 12 mm.

<i>Vasug</i>	9322	Per 500 grams,	-	-	-	-	-	-	75
--------------	------	----------------	---	---	---	---	---	---	----

**Glass Wool,** see Filter Glass Wool.

**Glassware (Plain)**



No. 9340.



No. 9342.



No. 9344.



No. 9346.



No. 9348.

**Jar, Aquarium.** Of heavy, white glass with straight sides and heavy flange.

Telegraphic Code.	Catalogue Number.		A	B	C	D	E	F
<i>Vatab</i>	9340	Capacity, litres,	2	4	6	8	16	32
		Diameter, mm.,	145	200	230	250	300	380
		Height, mm.,	135	160	195	210	280	350
		Each, - - - \$	40	60	80	1 00	2 00	3 00

**Jar, Battery.** Of heavy, white glass with straight sides.

<i>Vatbat</i>	9342		A	B	C	D	E	F
		Capacity, litres,	1	1.5	3	4	10	16
		Diameter, mm.,	100	105	125	150	200	225
		Height, mm.,	125	150	275	225	300	375
		Each, - - - \$	25	30	40	40	80	1 25

**Jar, Cylindrical.** Of clear, white glass, with flat bottom, without rim, and with a loosely-fitting cover. A very useful jar for holding test-tubes and for general purposes.

<i>Vatcem</i>	9344		A	B	C
		Diam., mm., - - -	65	80	100
		Height, mm., - - -	130	180	180
		Each, - - - - \$	30	45	60

**Jar, Cylindrical.** Of fine, white glass with shoulder, loosely-fitting cover and polished knob. A very fine jar.

<i>Vatdun</i>	9346		A	B	C	D	E
		Diameter, mm.,	100	120	150	210	260
		Height, mm.,	100	120	150	210	260
		Each, - - - \$	1 00	1 25	75	2 50	3 25

**Jar, Cylindrical.** Of fine, white glass with foot, loosely-fitting cover and smooth knob.

<i>Vateg</i>	9348		A	B	C	D	E
		Diam., mm.,	100	120	150	210	260
		Height, mm.,	100	120	150	210	260
		Each, - \$	1 00	1 25	1 75	2 50	3 25



No. 9350.



No. 9352.



No. 9354.



No. 9356.



# Glassware (Plain)

**Jars, Hydrometer,** see under "Hydrometers," Graduated Glassware.

**Jars, Preparation.** Of clear, white glass with neck, foot and ground glass stopper.

Telegraphic Code.	Catalogue Number.		A	B	C	D	E	F
<i>Vatfel</i>	9350	Diam., mm., -	30	30	40	50	60	80
		Height, mm.,	80	100	120	150	180	200
		Each, -	\$ 25	30	35	45	55	75

**Jars, Preservation.** Of clear, white glass. With glass cover fitting air-tight by means of a rubber ring, and held in place by a metal cap which screws down upon the cover. A good museum jar.

			A	B	C	D
<i>Vathills</i>	9352	Capacity, cc., -	-	250	500	1000
		Diam., mm., -	-	70	80	90
		Height, mm.,	-	110	150	180
		Each, -	-	\$ 10	15	20

**Jars, Preservation.** With self-acting clamp and body of the same size as mouth. The glass cover fits air-tight with rubber ring and is clamped with a spring clamp.

			A	B	C	D	E
<i>Vatine</i>	9354	Capacity, cc., -	30	200	250	400	600
		Diam. inside, mm.,	35	65	65	65	90
		Height, mm.,	35	70	90	135	105
		Each, -	\$ 10	10	12	15	20

**Jars, Screw-capped.** Small size, of clear, white glass.

			A	B	C	D
<i>Vatkap</i>	9356	Capacity, cc., -	30	60	120	240
		Diam., mm., -	35	45	50	60
		Height, mm.,	75	75	85	120
		Per ten, -	\$ 50	75	1 00	1 50



**Jars, Specimen.** Of white glass. Clear, free from imperfections; with foot, lip, carefully ground, air-tight cover of stopper-form with knob.

			A	B	C	D	E	F
<i>Vatlais</i>	9358	Diam., mm., -	-	75	30	50	75	100
		Height, mm.,	-	100	120	120	130	150
		Each, -	-	50	40	45	60	90

**Jars, Specimen.** Of fine white glass, with ground bottom and flange.

			A	B	C	D	E	F	G	H	J
<i>Vatmen</i>	9360	Diam., mm.,	25	40	30	50	75	100	120	180	250
		Height, mm.,	80	100	120	120	130	150	180	230	300
		Each, \$	15	20	25	30	50	75	1 00	2 00	3 00

BRANCHES: NEW YORK CITY AND CHICAGO.

## Glassware (Plain)

**Jars, Specimen.** (Museum Jars.) Without contraction at the neck, making the mouth the same size as the body of the jar; with rubber packing, metal clamp, and two suspension rings on the under side of cover. (Cut, page 101.)

Telegraphic Code.	Catalogue Number.		A	B	C	D	E	F
<i>Vatnity</i>	6476							
		Capacity, litres, - - -	.25	.38	.5	.75	1	.88
		Height without lid, mm.,	10	15	20	30	46	15
		Width of mouth, mm., -	8	8	8	8	8	9
		Each, - - - -	\$ 45	48	50	60	70	75
			G	H	J	K	L	M
		Capacity, litres, - - -	1.25	2	3	2.75	4	5
		Height without lid, mm.,	20	30	46	20	30	38
		Width of mouth, mm., -	9	9	9	13	13	13
		Each, - - - -	\$ 85	90	1 15	1 30	1 45	1 65
			N	O	P	R	RR	S
		Capacity, litres, - - -	6	4	6	6	9	11
		Height without lid, mm.,	46	20	33	20	30	38
		Width of mouth, mm., -	13	16	16	19	19	19
		Each, - - - -	\$1 80	1 70	1 95	2 50	2 90	3 20
			T	U	V	W	X	Y
		Capacity, litres, - - -	14	18	28	19	29	40
		Height without lid, mm.,	46	61	91	30	46	61
		Width of mouth, mm., -	19	19	19	29	29	29
		Each, - - - -	\$3 35	4 00	7 00	8 35	10 50	12 50

**Jars, Specimen.** Of fine, white glass, with carefully ground, air-tight cover. (See cut on page 101.)

			A	B	C	D	E
<i>Vatov</i>	9362	Diam., mm.,	140	100	200	180	220
		Height, mm.,	80	130	150	180	250
		Each, -	\$1 50	1 00	2 00	2 75	4 00

**Jars, Specimen.** Of fine, white glass. Inverted form with carefully ground, air-tight stopper, which acts as a pedestal on which the jar rests. A very ornamental museum jar. (See cut on page 101.)

			A	B	C	D
<i>Vatpull</i>	9364	Diam., mm., - -	50	80	100	120
		Height, mm., -	130	190	220	320
		Each, - - - -	\$ 50	1 00	1 50	2 00

**Moist Chambers.** In sets of two dishes of heavy, white glass; the upper one is the larger, fitting over the lower. With knob on upper dish. (See cut on page 103.)

			A	B
<i>Rasub</i>	1710	Diam. upper dish, mm.,	175	230
		Height (inside) lower dish, mm.,	55	67
		Per set, - - - -	\$1 50	2 50

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N.

## Glassware (Plain)



No. 1710.



No. 9370.



No. 9376.



No. 6490.

### Moist Chambers. Without knob on upper dish.

Telegraphic Code.	Catalogue Number.		A	B
<i>Vatsot</i>	6482	Diam. upper dish, mm.,	200	240
		Diam. lower dish, mm.,	70	80
		Per set,	\$1 00	1 50

### Moist Chamber, Kleb's. With parallel surfaces.

<i>Vaugal</i>	6484	Each,	-	-	-	-	-	\$ 50
---------------	------	-------	---	---	---	---	---	-------

### Moist Chamber, Recklinghausen's. With parallel surfaces.

<i>Vauhill</i>	6486	Each,	-	-	-	-	-	75
----------------	------	-------	---	---	---	---	---	----

### Mortars. Of clear, white glass; very strong, with pestle.

			A	B	C	D	E	F
<i>Vauhot</i>	9370	Capacity, cc.,	30	60	125	250	500	1000
		Diam., mm.,	60	70	100	110	130	150
		Each,	\$ 15	20	30	40	50	75

Mortars, see Porcelain-ware.

### Percolators. Conical shape.

			A	B	C	D
<i>Vaukol</i>	9376	Capacity, cc.,	-	500	1000	2000
		Each,	-	\$ 20	30	50
						75

**Percolators.** Displacement apparatus; with ground funnel and stopper in the separatory funnel, and with stop-cock connecting funnel with lower vessel.

			A	B	C	D
<i>Vaukut</i>	6490	Capacity, cc.,	-	250	500	1000
		Each,	-	\$3 00	3 75	4 25
						5 00

Percolators, see Agate-ware.



No. 9380.



No. 6494.

### Pipettes. With rubber bulb, 2 cc.

<i>Vattup</i>	9380	Straight.	-	-	-	-	Per ten,	\$ 30
<i>Vatuet</i>	9382	Curved.	-	-	-	-	Per ten,	35

### Pipettes. With large mouth and extra large rubber bulb.

<i>Vatvun</i>	9384	Straight.	-	-	-	-	Per ten,	50
---------------	------	-----------	---	---	---	---	----------	----

BRANCHES: NEW YORK CITY AND CHICAGO.

## Glassware (Plain)

**Pipettes.** With funnel top for finger, 90 mm. long.

Telegraphic Code.	Catalogue Number.								Price.
<i>Vatwig</i>	9386	Straight,	-	-	-	-	-	Per ten,	\$ 35
<i>Vaty</i>	9388	Curved.	-	-	-	-	-	Per ten,	40

**Pipettes.** Without bulb, straight.

<i>Vatyor</i>	9390	200 mm. long.	-	-	-	-	Per ten,	50
<i>Vauble</i>	9394	300 mm. long.	-	-	-	-	Per ten,	75

**Pipettes.** With 20 cc. rubber bulb, straight.

<i>Vauan</i>	9392	200 mm. long.	-	-	-	-	Per ten,	1 50
<i>Vauca</i>	9396	300 mm. long.	-	-	-	-	Per ten,	1 75

**Pipette, Pasteur's Bulb.** Useful for a variety of purposes, such as removing anatomical secretions, cultures from media, and inoculation of a number of tubes.

<i>Vaufle</i>	6494	Each,	-	-	-	-	-	-	15
---------------	------	-------	---	---	---	---	---	---	----

**Pipettes, Mohr's,** see Graduated Glassware.

**Pipettes, Volume,** see Graduated Glassware.



No. 1714.



No. 1720.



No. 6502.

**Staining Dish, Moore's.** The inside dish has parallel ridges between which slides or cover-glasses may be placed. Reagents are used economically in this dish, the capacity of which is 30 covers of 18 mm. thickness or 6 standard sized slides.

<i>Ratard</i>	1714	Each,	-	-	-	-	-	-	1 00
---------------	------	-------	---	---	---	---	---	---	------

**Staining Dish, Steinach's.** An inner vessel with perforated bottom is supported on glass feet in an outer dish having a top ground on air-tight. This arrangement enables objects to be taken from staining fluids without injury. Diameter of outer dish, 75 mm.

<i>Rarard</i>	1720	Each,	-	-	-	-	-	-	1 25
---------------	------	-------	---	---	---	---	---	---	------

**Staining Dish, Oval.** Of heavy, white glass with loosely fitting cover, polished bottom and stopper. Size, 43 x 19 x 85 mm.

<i>Vauish</i>	6502	Each,	-	-	-	-	-	-	25
---------------	------	-------	---	---	---	---	---	---	----

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N

# Glassware (Plain)



No. 6504.



No. 1716.

**Staining Jar, Coplin's.** For convenient manipulation of sections attached to slides; very economical of space and reagents. Of heavy, serviceable construction with cover ground to fit. Capacity, 10 standard sized slides.

Telegraphic Code.	Catalogue Number.								Price.
<i>Vaujen</i>	6504	Each,	-	-	-	-	-	-	\$ 50

**Staining Jar, Naples'.** For staining sections attached to slides. A cylindrical jar with heavy, wide base and hemispherical glass cover. Diameter, 35 mm.; height without cover, 90 mm.

<i>Raravs</i>	1716	<i>a.</i> As above described.	-	-	-	Each,	20
<i>Rarawc</i>	1718	<i>b.</i> With cork stopper instead of glass cover.	-	-	-	Each,	16

Staining Dishes, etc., see Porcelain-ware.



No. 9434.



No. 9436.



No. 9438.



No. 9440.

## **Stop-cocks.**

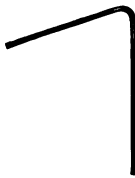
<i>Vauk</i>	9434	Straight, 80 mm. long.	-	-	-	Each,	\$1 00
<i>Vaulem</i>	9436	Curved, 80 mm. long.	-	-	-	Each,	1 00
<i>Vaumel</i>	9438	Geissler's straight. For connecting rubber tubing, etc.; 4 mm. diameter.	-	-	-	Each,	1 50
<i>Vauneis</i>	9440	Geissler's curved. For connecting rubber tubing, etc.; 4 mm. diameter.	-	-	-	Each,	1 50



No. 9442.



No. 9444.



No. 9450.



No. 9454.



No. 9456.

## **Stop-cocks, Geissler's multiple way; 4 mm. diameter.**

<i>Vauock</i>	9442	Three-way.	-	-	-	Each,	1 75
<i>Vaupot</i>	9444	Four-way.	-	-	-	Each,	2 00

Stop-cocks, brass, see Stop-cocks.

BRANCHES: NEW YORK CITY AND CHICAGO.

## Glassware (Plain)

### Syphons, Plain. (See cut on page 105.)

Telegraphic Code.	Catalogue Number.		A	B	C	D
<i>Vauquoy</i>	9450	Length, mm.,	- - - 250	500	750	1000
		Each, - - -	\$ 15	25	40	60

### Syphons. With suction tube.

			A	B	C	D
<i>Vauron</i>	9452	Length, mm.,	- - - 250	500	750	1000
		Each, - - -	\$ 25	40	60	1 00

### Syphons. With glass stop-cock and suction tube. (See cut on page 105.)

			A	B	C	D
<i>Vausoy</i>	9454	Length, mm.,	- - - 250	500	750	1000
		Each, - - -	\$1 00	1 25	1 50	2 00

**Syphons, or so-called "thief glasses."** For taking samples from barrels. Length, 75 cm.; metal handle. (See cut on page 105.)

<i>Vautor</i>	9456	Each, - - -	- - -	- - -	- - -	\$1 20
---------------	------	-------------	-------	-------	-------	--------



No. 9460.



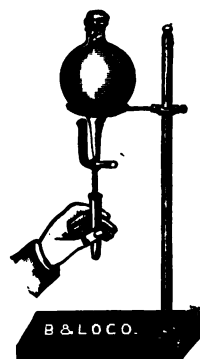
No. 9464.



No. 9466.



No. 9468.



No. 6512.

### Test Tubes. With lip of clearest Bohemian glass, thin walled.

			A	B	C	D	E	F
<i>Vauveg</i>	9460	Diam., mm.,	11	12	13	15	18	15
		Length, mm.,	75	100	120	120	120	150
		Per ten,	\$ 10	12	15	15	18	20
			FF	G	H	J	K	
		Diam., mm.,	18	20	25	18	20	
		Length, mm.,	150	150	150	180	200	
		Per ten,	\$ 25	25	30	35	40	

### Test Tubes. Without lip and heavy walled. Round bottom. Board-of-Health form.

			A	B	C	D	E	F	G	H
<i>Vauvo</i>	9462	Diam., mm.,	12	15	13	15	18	15	18	20
		Length, mm.,	100	100	120	120	120	150	150	150
		Per ten,	\$ 18	20	22	25	30	30	35	40

### Test Tubes. Without lip and heavy walled. Flat bottom, otherwise same as No. 9462.

			A	B	C	D
<i>Vauxu</i>	9464	Diam., mm.,	- - - 12	15	13	15
		Length, mm.,	- - - 100	100	120	150
		Per ten,	- - - \$ 18	20	22	30

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N

## Glassware (Plain)

### **Test Tubes.** With side neck.

Telegraphic Code.	Catalogue Number.		A	B	C	D
<i>Vauyeb</i>	9466	Length, mm.,	120	150	180	200
		Per ten,	\$ 50	60	75	1 00

### **Test Tubes.** With base and lip.

			A	B	C
<i>Vauzam</i>	9468	Diam., mm.,	16	20	25
		Height, mm.,	100	130	150
		Per ten,	\$ 50	60	75

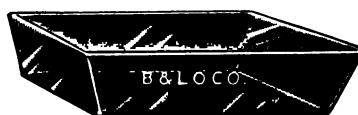
**Test-tubes, graduated, see Graduated Glassware.**

**Test Tube Filling Attachment.** For measuring exact quantities of culture media. Consists of a glass bulb, burette, and stop-cock. Without apparatus stand and clamp.

			A	B	C
<i>Vawbeb</i>	6512	Capacity, cc.,	250	500	1000
		Each,	\$2 50	3 00	4 00



No. 6516.



No. 6518.

### **Trays, Glass.** With vertical sides and polished edges.

			A	B	C
<i>Vawbit</i>	6516	Height, mm.,	40	50	35
		Length, mm.,	100	115	120
		Width, mm.,	40	50	60
		Each,	\$ 30	40	50

**Trays, Glass.** With slanting sides, smooth inside and outside; a good disinfecting dish.

			A	B	C
<i>Vawcat</i>	6518	Bottom inside, cm.,	13 x 16	16 x 21	21 x 26
		Each,	\$ 75	1 00	1 50

**Trays, see Agate-ware and Porcelain-ware.**



No. 9494.



No. 9496.



No. 9498.

### **Tubes, Connecting, three-way.** T-shaped.

			A	B	C	D	E
<i>Vawed</i>	9494	Diam., mm.,	6	7	9	11	12
		Length, mm.,	25	40	50	65	90
		Each,	\$ 10	12	14	16	18

BRANCHES: NEW YORK CITY AND CHICAGO.

## Glassware (Plain)

### Tubes, Connecting, Y-shaped. (See cut on page 107.)

Telegraphic Code.	Catalogue Number.		A	B	C	D	E
<i>Vawful</i>	9496	Diam., mm., - -	6	7	9	11	12
		Length, mm., -	25	40	50	65	90
		Each, - - -	\$ 10	12	14	16	18

### Tubes, Connecting. U-shaped. (See cut on page 107.)

			A	B	C	D	E
<i>Vawgag</i>	9498	Diam., mm., - -	6	7	9	11	12
		Length, mm., -	25	40	50	65	90
		Each, - - -	\$ 10	12	14	16	18



No. 6520.



No. 6522.



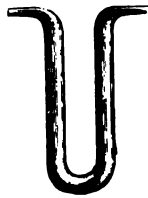
No. 6524.

### Tubes, Culture.

<i>Vawil</i>	6520	Chamberland's. For blood serum.	Each,	\$ 40
<i>Vawjar</i>	6522	Pasteur's, with side neck. - - -	Each,	35
<i>Vawkow</i>	6524	Pawlovski's. With constriction for prepared potato to rest upon. - - -	Each,	10



No. 9500.



No. 9502.



No. 9504.

### Tubes, Drying. Bank's.

			A	B	C
<i>Vawling</i>	9500	Diam., mm., - - - -	13	16	18
		Length, mm., - - - -	100	140	180
		Each, - - - -	\$ 20	30	40

### Tubes, Drying. Hart's.

			A	B	C	D
<i>Vawmen</i>	9502	Diam., mm., - -	13	16	18	20
		Length, mm., - -	120	140	180	220
		Each, - - - -	\$ 30	40	50	60

BAUSCH & LOMB OPTICAL CO., ROCHESTER



## Glassware (Plain)

### Tubes, Drying. Marchand's.

Telegraphic Code.	Catalogue Number.		A	B	C	D
<i>Vawnent</i>	9504	Diam., mm.,	15	20	22	25
		Length, mm.,	150	200	250	300
		Each, -	\$ 20	30	40	50



No. 9518.



No. 9530.



No. 9536.



No. 9538.



No. 9542.

### Tubes, Filter (or carbon filter tubes). For Gooch crucibles.

			A	B	C	D
<i>Vawog</i>	9518	Diam. at top, mm.,	18	25	28	32
		Each, -	\$ 20	22	25	30

### Tumblers. Of plain, white glass; good quality. Capacity, 160 cc.

<i>Vawpog</i>	9530	Per ten, -	-	-	-	-	-	-	-	40
---------------	------	------------	---	---	---	---	---	---	---	----

### Vials, Tube-form. Of clear, white glass. With flat bottoms and cork, and without neck.

			A	B	C	D	E	F	G	H	J	K	L
<i>Vawquiv</i>	9532	Diam., mm.	8	8	10	12	13	15	16	25	25	25	25
		Height, mm.,	25	35	40	50	60	70	80	50	60	70	80
		Per ten, -	\$ 10	15	18	20	25	30	35	40	50	60	75

### Vials, Tube form. Of amber glass. With flat bottoms and cork, and without neck.

			A	B	C	D	E	F	G	H
<i>Vawris</i>	9534	Diam., mm.,	8	8	10	12	14	18	18	26
		Height, mm.,	28	35	45	55	65	65	95	77
		Per ten, -	\$ 10	15	20	25	30	35	40	60

### Vials, Homœopathic. Short form, with flat bottom, neck, and cork.

			A	B	C	D	E	F
<i>Vawsir</i>	9536	Capacity, cc.,	4	7	11	15	22	30
		Per ten, -	\$ 10	15	20	25	30	40

### Vials, Homœopathic. With metal screw top, cork-lined, in place of cork stopper.

			A	B	C	D	E	F
<i>Vawum</i>	9540	Capacity, cc.,	4	7	11	15	22	30
		Per ten, -	\$ 15	18	20	25	35	45

BRANCHES: NEW YORK CITY AND CHICAGO.

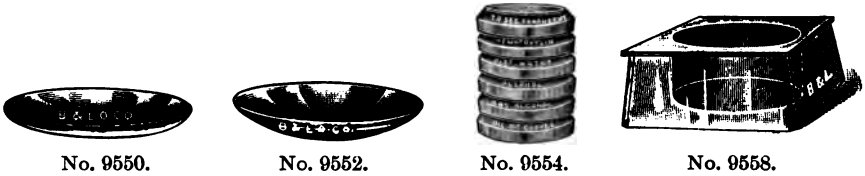
# Glassware (Plain)

**Vials, Glass-stoppered.** For the preservation of small specimens in reagents which would attack cork or rubber stopper. (See cut on page 109.)

Telegraphic Code.	Catalogue Number.		A	B	C	D	E
<i>Vawter</i>	9538	Capacity, cc.,	2	3	4	6	8
		Per ten, - - -	\$ 40	50	60	75	1 00

**Vials, Preparation.** With glass stoppers, flat bottoms, and straight sides. (See cut on page 109.)

			A	B	C	D
<i>Vawvan</i>	9542	Diam., mm., - -	16	18	20	25
		Height, mm., - -	50	65	80	80
		Each, - - - -	\$ 15	20	22	25



**Watch-glasses.** With concave centers and a small facet on the bottom.

<i>Vawwa</i>	9550	Per ten, - - - -	\$ 50
--------------	------	------------------	-------

**Watch-glasses.** Thin, concave German form.

			A	B	C	D	E	F	G
<i>Vaxbel</i>	9552	Diam., mm.,	40	50	70	100	120	140	160
		Per ten,	\$ 30	40	60	1 00	2 00	3 00	4 00

**Watch-glasses, Syracuse Solid.** These watch-glasses are of the most convenient form to be handled without danger of dropping. They will stand more hard usage without breaking or chipping than any other form. The bottom surfaces are parallel so that distortion in making examination of objects is avoided, and the sides have a slight curvature to enable free access of the section lifter. They can be securely stacked. Outside diameter, 65 mm.; inside diameter, 50 mm.; depth, 10 mm.

<i>Vaxcant</i>	9554	Improved form, plain. - - -	Per ten,	50
<i>Vaxdix</i>	9556	Improved form, with ground beveled surface for writing upon. - - -	Per ten,	75

**Watch-glasses, Square form, with cover.**

<i>Vaxel</i>	9558	With a ground vertical surface for writing upon. - - -	Per ten,	60
<i>Vaxfling</i>	9560	With upper and lower surfaces cut and polished and a ground vertical surface for writing upon. - - -	Per ten,	1 25
<i>Vaxgable</i>	9562	Of black glass. - - -	Each,	35

## Graduated and Tested Glassware



No. 9610.



No. 9620.



No. 9622.



No. 9624.

**Alkalimeter**, Geissler and Erdman's. For the volumetric analysis of alkaline solutions.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vealk</i>	9610	Each, - - - - -	\$1 50

**Bottles**, Aspirating. Of heavy white glass with neck ground inside; accurately graduated; and with foot and straight neck.

<i>Vebas</i>	9620	Capacity, cc.,	A	B	C
		Each, - - - - -	500	1000	2000
			\$1 00	1 50	2 00

**Bottles**, Aspirating. Of heavy, white glass with outlet near the bottom.

<i>Vecolt</i>	9622	Capacity, cc.,	A	B	C	D	E
		Each, - - - - -	250	500	1000	2000	4000
			\$ 40	45	60	80	1 20

**Bottles**, Aspirating. With glass stop-cock and stopper ground in.

<i>Vedat</i>	9624	Capacity, cc.,	A	B	C	D	E
		Each, - - - - -	250	500	1000	2000	4000
			\$1 50	1 75	2 00	2 50	4 00



No. 9628.



No. 9630.



No. 9632.



No. 9634.



No. 9636.

**Bottles**, Specific-Gravity. Gay-Lussac's with perforated stopper.

<i>Vefsep</i>	9628	Capacity, cc.,	A	B	C	D
		Each, - - - - -	10	25	50	100
			\$ 20	25	35	50

**Bottles**, Specific-Gravity. Gay-Lussac's, accurately adjusted.

<i>Vegav</i>	9630	Capacity, cc.,	A	B	C	D
		Each, - - - - -	10	25	50	100
			\$ 60	75	1 00	1 25

BRANCHES: NEW YORK CITY AND CHICAGO.

# **Glassware (Graduated)**

**Bottles, Specific-Gravity.** Regnault's, for liquids. (See cut on page 111.)

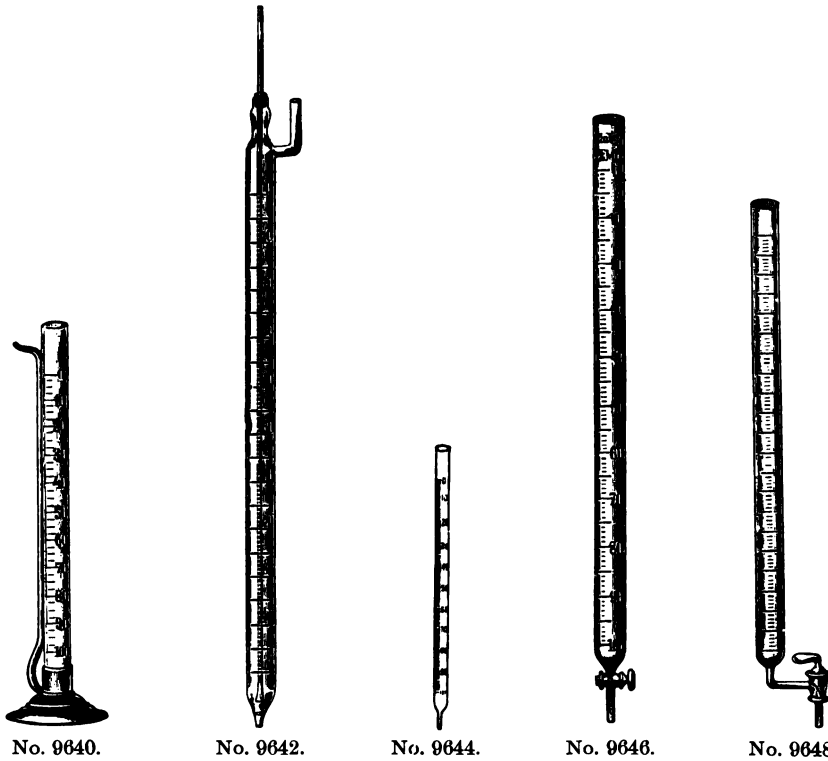
Telegraph Code.	Catalogue Number.		A	B	C
<i>Vehity</i>	9632	Capacity, cc., - - -	25	50	100
		Each, - - - - -	\$ 50	60	75

**Bottles, Specific-Gravity.** Regnault's, for solids. (See cut on page 111.)

			A	B
<i>Vejreg</i>	9634	Capacity, cc., - - -	25	50
		Each, - - - - -	\$ 50	75

**Bottles, Specific-Gravity.** With thermometer, having 0.2 degree divisions, ground into neck, side tube and stopper. (See cut on page 111.)

			A	B	C
<i>Veksid</i>	9636	Capacity, cc., - - -	25	50	100
		Each, - - - - -	\$2 50	3 00	3 50



**Burettes.** Automatic Zero. For accurate phenolphthalein tests, etc.; graduated in 0.1 cc.

			A	B
<i>Velaut</i>	6540	Capacity, cc., - - -	25	50
		Each, - - - - -	\$4 50	5 00

**Burettes.** Gay-Lussac's, on wooden base.

			A	B	C	D
<i>Vengay</i>	9640	Capacity, cc., -	10	25	50	100
		Graduations, cc., -	0.1	0.1	0.1	0.2
		Each, - - - - -	\$1 00	1 25	1 50	2 00

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N

## Glassware (Graduated)

### Burettes. Geissler's.

Telegraphic Code.	Catalogue Number.		A	B	C
<i>Veoges</i>	9642	Capacity, cc., - - - -	25	50	100
		Graduations, cc., - - -	0.1	0.1	0.2
		Each, - - - - -	\$1 20	1 60	2 00

### Burettes. Mohr's, for pinch-cocks.

		A	B	C	D	E	F
<i>Veying</i>	9644	Capacity, cc., - 5 10	25	50	50	100	
		Graduations, cc., 0.1 0.1	0.1	0.1	0.2	0.2	
		Each, - - - \$ 30	50	75	1 00	90	1 50

### Burettes. Mohr's, with Geissler stop-cock.

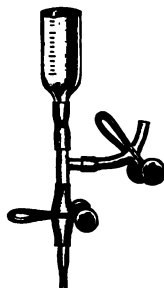
		A	B	C	D
<i>Veqmor</i>	9646	Capacity, cc., - 10	25	50	100
		Graduations, cc., 0.1	0.1	0.1	0.2
		Each, - - - \$1 00	1 25	1 50	2 00

### Burettes. Mohr's, with angled outlet and Geissler stop-cock.

		A	B	C	D
<i>Vercok</i>	9648	Capacity, cc., - 10	25	50	100
		Graduations, cc., 0.1	0.1	0.1	0.2
		Each, - - - \$1 00	1 25	1 50	2 00



No. 9650.



No. 6542.

### Burettes. Schellback's, for pinch-cock. With dark enameled stripe on white background.

white background.				A	B	C
<i>Veshel</i>	9650	Capacity, cc.,	- - -	25	50	100
		Graduations, cc.,	- - -	0.1	0.1	0.2
		Each,	- - - -	\$1 00	1 25	1 50

### Burettes. Schellback's, same as preceding, and with Geissler stop-cock.

				A	B	C		
<i>Vetack</i>	9652	Capacity, cc.,	-	-	-	25	50	100
		Graduations, cc.,	-	-	-	0.1	0.1	0.2
		Each,	-	-	-	\$1 50	2 00	2 75

### Burette Attachment. For refilling. Consists of three-way tube, pinch-cocks, rubber tubing and glass point.

<i>Vevbet</i>	6542	Complete, - - - - -	\$ 60
---------------	------	---------------------	-------

## Glassware (Graduated)

**Burette Float, Erdman's.** This float is of material aid in reading burettes. Sizes 6 to 15 mm. diameter. In ordering, give inside diameter of burette.

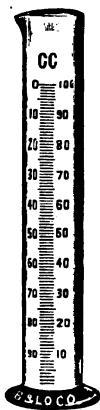
Telegraphic Code.	Catalogue Number.									Price.
<i>Vevibf</i>	9656	Each,	-	-	-	-	-	-	-	\$ 20

**Burette Pinch-cocks.** With rubber tube and glass point.

		Size,		A Small	B Medium	C Large
<i>Veupur</i>	9654	Each,	-	\$ 15	20	25



No. 9660.



No. 9662.



No. 9664.



No. 9672.



No. 9674.

**Cylinders.** With foot, lip and pour-out; accurately graduated.

			A	B	C	D	E	F	G	H
<i>Vewcyl</i>	9660	Capacity, cc.,	5	10	25	50	75	100	150	200
		Each,	-	\$ 20	25	30	35	40	45	50
		Capacity, cc.,		J	K	L	M	N		
				250	500	1000	2000	3000		
		Each,	-	\$ 75	1 00	1 50	2 50	4 00		

**Cylinders.** Double graduated, reading both up and down.

			A	B	C	D	E	F	G	H
<i>Vexab</i>	9662	Capacity, cc.,	10	25	50	100	250	500	1000	2000
		Each,	\$ 30	40	50	75	1 00	1 50	2 00	3 00

**Cylinders.** Mixing, with foot and ground glass stopper.

				A	B	C	D	E
<i>Veying</i>	9664	Capacity, cc.,	-	25	50	75	100	150
		Each,	-	\$ 50	60	70	80	90
		Capacity, cc.,	-	F	G	H	J	
			-	200	250	500	1000	
		Each,	-	\$1 00	1 25	1 50	2 00	

**Cylinders.** Mixing, with double graduations, reading both up and down; foot and ground glass stopper.

				A	B	C	D	E	F
<i>Vezmx</i>	9666	Capacity, cc.,	-	25	50	100	250	500	1000
		Each,	-	\$ 60	75	1 00	1 50	2 00	2 50

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N

# Glassware (Graduated)

**Flasks.** Accurately graduated to the volume indicated.

Telegraphic Code.	Catalogue Number.		A	B	C	D	E	F
<i>Veba</i>	9672	Capacity, cc., -	50	100	250	500	1000	2000
		Each, - - - \$	20	25	40	60	75	1 00

**Flasks.** With ground glass stopper, and graduated as preceding.

			A	B	C	D	E	F
<i>Vebb</i>	9674	Capacity, cc.,	50	100	250	500	1000	2000
		Each, -	\$ 25	35	50	75	90	1 20



No. 9690.



No. 9692.



No. 9694.

**Graduates.** These articles are graduated with the greatest accuracy and should not be confused with cheaper grades. Conical with base.

			A	B	C	D	E	F	G	H
<i>Vebceum</i>	9690	Capacity, cc.,	10	25	50	100	250	500	1000	2000
		Each, -	\$ 20	30	40	50	75	1 00	1 50	2 50

**Graduates.** Large size with the scale etched on. The lip is located so that the contents are poured at right angles to the handle instead of from the side opposite the handle, as illustrated. Capacity, 1500 cc.

<i>Vebdam</i>	9692	Each,	-	-	-	-	-	-	-	75
---------------	------	-------	---	---	---	---	---	---	---	----

**Graduates.** Graduated both in cubic centimeters and ounces.

			A	B	C	D	E	F	G
<i>Vebeg</i>	9694	Capacity, {	15	30	60	125	250	500	1000
		cc.,	0.5	1	2	4	8	16	32
		ozs.,							
		Each, -	\$ 25	30	40	55	80	1 35	2 00



No. 9704.



No. 9724.



No. 9740.

BRANCHES: NEW YORK CITY AND CHICAGO.

## Glassware (Graduated)

**Hydrometers, Baume's.** Set for light and heavy liquids. Graduations 0.700 to 1.000, and 1.000 to 2.000. Complete in case. (See cut on page 115.)

Telegraphic Code.	Catalogue Number.						Price.
<i>Vebhold</i>	9704	With thermometers.	-	-	-	Per set,	\$3 00
<i>Vebity</i>	9706	Without thermometers.	-	-	-	Per set,	1 50

**Hydrometer, Quevenne's Milk (or Lactometer).** Graduated from 1.015 to 1.040, with scales indicating the percentages of cream and milk and the amount of dilution. (See cut on page 115.)

<i>Vebkol</i>	9724	Each,	-	-	-	-	-	-	50
---------------	------	-------	---	---	---	---	---	---	----

**Hydrometer Jars or Cylinders.** With pour-out and base. (Cut, p. 115.)

			A	B	C	D	E	F	G	H	J
<i>Veblar</i>	9740	Diam., mm.,	25	35	40	40	45	50	65	65	50
		Height, mm.,	130	155	210	235	260	285	315	365	350
		Each,	-	\$ 15	20	25	30	35	40	50	60

**Lactometer,** see Hydrometer, Quevenne's; or Milk Testing Apparatus, page 124.



No. 9750.



No. 9756.

**Nitrometer, Lunge's (or Azometer).** For the determination of nitrogen, in some of its combinations, when contained in mixtures. Consists of an absorption tube, expansion bulbs, filtering funnel, and graduated leveling tube.

<i>Vebmid</i>	9750	a. Without support.	-	-	-	-	Each,	4 50
		b. With support.	-	-	-	-	Each,	6 00

**Pipettes, Mohr's.** For use as a finger pipette.

			A	B	C	D	E
<i>Vebnat</i>	9754	Capacity, cc.,	1	1	2	2	5
		Graduated, cc.,	0.01	0.1	0.02	0.1	0.1
		Each, - - - \$	30	30	30	30	30
				F	G	H	J
		Capacity, cc.,	-	-	10	25	50
		Graduated, cc.,	-	-	0.1	0.1	0.1
		Each, - - - -	-	50	75	1 00	1 50

**Pipettes, Volume.** The capacities are indicated for 60° F (15.5° C).

			A	B	C	D	E	F	FF	G
<i>Vebob</i>	9756	Capacity, cc.,	1	2	3	4	5	10	15	20
		Each, - \$	10	10	12	12	14	16	18	20
				H	J	JJ	K	L		
		Capacity, cc.,	-	25	50	75	100	200		
		Each, - - - \$	25	30	40	50	75			

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N



# **Glassware (Graduated)**



No. 9760.



No. 6560.



No. 6562.

**Thermometers, Chemical.** With Centigrade and Fahrenheit scales etched on. These thermometers are carefully graduated and are known to be accurate.

Telegraphic Code.	Catalogue Number.		A	B
<i>Vebquod</i>	9760	Length, mm.,	200	300
		Graduations {	Cent., — 10 to + 100°	— 10 to + 150°
			Fahr., + 14 to + 200	+ 14 to + 300
		Each,	\$1 00	1 25

**Thermometers, Chemical.** Calibrated, and suitable for general laboratory use. Made of Jena normal glass, with the graduations cut in the tube and white background. They are absolutely accurate for positive and negative values. Length, 400 mm.; graduated from — 20 to + 250° Centigrade.

<i>Vebros</i>	9762B	Each,	-	-	-	-	-	-	\$1 50
---------------	-------	-------	---	---	---	---	---	---	--------

**Thermometers, Chemical.** With glass ring. Length, 100 mm. Graduated from — 20 to + 100° Centigrade, and — 4 to + 212° Fahrenheit.

<i>Vebtot</i>	9764A	Each,	-	-	-	-	-	-	60
---------------	-------	-------	---	---	---	---	---	---	----

**Thermometers, Chemical.** With milk glass-scale.

			A	B
<i>Vebtom</i>	9766	Length, mm.,	200	300
		Graduations {	Cent., — 10 to + 100°	— 10 to + 150
			Fahr., + 14 to + 200	+ 14 to + 300
		Each,	\$1 00	1 25

**Thermometers, Chemical,** see also Catalogue F.

**Thermometers, Dairy.** Extra heavy, and short in form; graduated from — 20 to + 180 Fahrenheit, with special marked temperatures for operations in milk testing. Glass suspension ring.

<i>Veboor</i>	6560	Each,	-	-	-	-	-	-	35
---------------	------	-------	---	---	---	---	---	---	----

**Thermometers, Earth.** For use in soil testing; it has frame with metal point and a handle to aid in inserting in the soil.

<i>Vebweg</i>	6562	Each,	-	-	-	-	-	-	2 50
---------------	------	-------	---	---	---	---	---	---	------

BRANCHES: NEW YORK CITY AND CHICAGO.

# Glassware (Graduated)



No. 6566.



No. 6570.



Upper Part of No. 6572.

**Thermometers, Incubator.** Of the best quality Normal glass, and with long end.

Telegraphic Code.	Catalogue Number.		A	B
<i>Veca</i>	6566	Length, mm., -	450	450
		Graduations, Centigrade, 0 to + 50°		+ 10 to + 60°
		Divisions, degrees, -	0.2	0.1
		Each, - - -	\$2.25	2 25

**Thermometers, Incubator.** With very distinct graduations on a white scale so as to be readily seen at a distance. Total length 250 mm.; graduations from 0 to 50° Centigrade.

<i>Vecdes</i>	6568	Each, - - - - -	\$2 00
---------------	------	-----------------	--------

**Thermometers, Incubator.** Short form, for hanging inside the chamber. In double metal case, which may be revolved so as to entirely enclose the thermometer. Graduations from 0 to + 50° Centigrade. Also useful for other purposes where an enclosed or protected thermometer is required.

<i>Vecfle</i>	6570	Each, - - - - -	75
---------------	------	-----------------	----

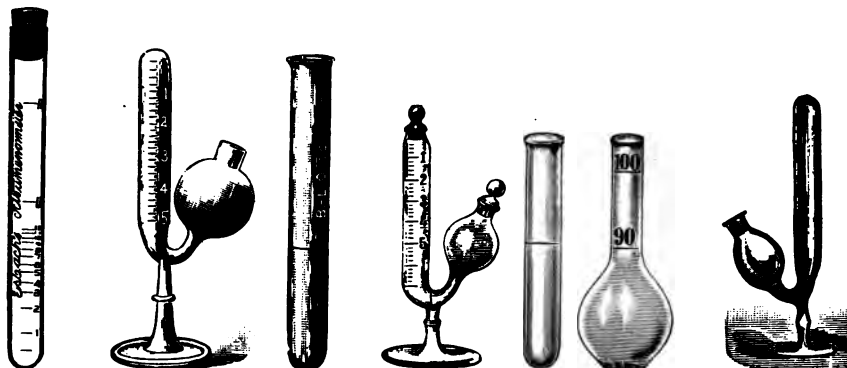
**Thermometers, Incubator.** Self registering maximum and minimum on Sixe's system. With white scales 160 mm. long. Graduated from — 20 to 50° Centigrade. The lower part, for insertion in the incubator tubulation, is 200 mm. long. Price includes a horse-shoe magnet for adjusting registering markers.

<i>Vecfum</i>	6572	Each, - - - - -	5 00
---------------	------	-----------------	------

Graduated Glassware, Milk Testing, see page 124.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Urinary Glassware



No. 9800.

No. 9802.

No. 9804.

No. 9806.

**Albuminometer**, Esbach's. Consists of a tube graduated to indicate grams of albumin per litre of urine, and fitted with rubber stopper. This method is vastly superior to the former one (consisting of simply boiling the urine and examining the mass contained) and enables direct readings to be taken.

Telegraphic Code.	Catalogue Number.		Price.
<i>Veda</i>	9800	In wooden, protecting case with directions.	Each, \$ 75

**Saccharometer**, Einhorn's Fermentation. For the estimation of sugar in urine. Consists of a graduated fermentation tube and test-tubes. Carbonic acid gas collects in the upper part of the closed limb and forces the fluid back; the percentage of sugar present may be read directly on the tube.

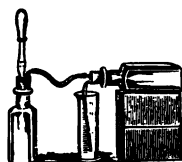
<i>Vedbel</i>	9802	In case with directions.	- - -	Each, 75
---------------	------	--------------------------	-------	----------

**Saccharometer**, Einhorn's Improved. Consists of a very finely graduated fermentation tube mounted on glass support and closed by ground glass stoppers, with a graduated test-tube and mixing flask. Very accurate.

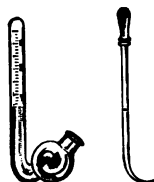
<i>Vedcar</i>	9804	In case with directions.	- - -	Each, 1 50
---------------	------	--------------------------	-------	------------

**Tube**, Fermentation. For bacteriological and urinary work.

<i>Veddel</i>	9806	a. Medium size, ungraduated.	- -	Each, 25
		b. Large size, ungraduated.	- -	Each, 25
		c. Medium size, graduated.	- -	Each, 50



No. 9808.



No. 9810 B.



No. 9812.

BRANCHES: NEW YORK CITY AND CHICAGO.

## Glassware (Urinary)

**Urea Apparatus, Squibb's.** For the quantitative estimation of the amount of urea. The apparatus is set up as illustrated according to directions and a small quantity of urine dropped by a graduated pipette into the receptacle containing the reagent. Nitrogen is evolved and displaces water, which is collected and measured in the graduated cylinder. The quantity displaced gives, by means of a table, the percentage of urea in the sample and the amount in larger quantities in units of both metric and English systems. A very handy apparatus for the practitioner. (See cut on page 119).

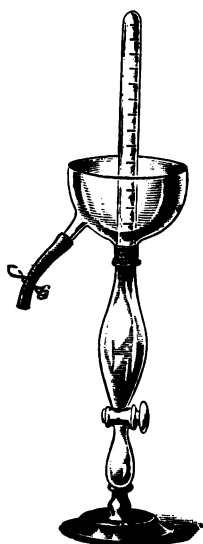
Telegraphic Code.	Catalogue Number.		Price.
Vedeur	9808	Complete with 50 cc. bottle of reagent,	\$2 00

**Urea Apparatus, Doremus'.** A highly recommended apparatus for the quantitative estimation of the amount of urea by the hypobromite method. Consists of a graduated fermentation tube and a graduated pipette for introducing the urine. Upon the introduction of the urine the amount of urea per quantity of urine introduced is indicated by the displacement of the hypobromite solution and measured directly on the tube in both metric and English systems. Whether above or below, the normal quantity is also indicated. Directions are furnished. (See cut on page 119.)

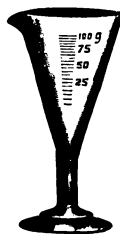
Vedfah	9810	a. With fermentation tube on foot.	Complete,	1 00
		b. Without foot.	Complete,	85

**Urea Apparatus. Doremus-Hinds.** This form has an extra arm with glass stop-cock and enables the exact amount of urine required for the test to be delivered with the greatest accuracy without any gas escaping from the bulb. (See cut on page 119.)

Vedgor	9812	Each,	- - - - -	3 00
--------	------	-------	-----------	------



No. 9814.



No. 9816 B.



No. 9818.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Glassware (Urinary)—Glass Pencils

**Urea Apparatus, Huefner's.** An excellent apparatus for urea determination by the hypobromite method. Urine is inserted in the lower of two glass chambers connected by a glass stop-cock, the upper chamber being filled with hypobromite solution. At the top of the apparatus is a cup-shaped vessel for excess fluid, to enable an eudiometer to be filled and fitted over the mouth of the upper chamber. Displacements as large as 20 cc. may be measured on the eudiometer.

Telegraphic Code.	Catalogue Number.									Price.
<i>Vedihor</i>	9814	Complete,	-	-	-	-	-	-	-	\$4 50

**Urine Cylinder, Graduated.** With ground rim and ground-on cover. Capacity, 2000 cc.

<i>Vedjug</i>	6590	Each,	-	-	-	-	-	-	-	2 00
---------------	------	-------	---	---	---	---	---	---	---	------

**Urine Sedimentation Glasses.** Conical in shape; 100 cc. capacity

<i>Vedkam</i>	9816	<i>a.</i> Graduated in cc.	-	-	-	-	Each,	50
		<i>b.</i> Ungraduated.	-	-	-	-	Each,	25

**Urinometer, Squibb's.** With cylinder. The urinometer is graduated from 1.000 to 1.060; length, 120 mm. It is furnished in case, with directions.

<i>Vedlar</i>	9818	<i>a.</i> Without thermometer.	-	-	Complete,	75
		<i>b.</i> With thermometer.	-	-	Complete,	1 75



No. 9824.



No. 9830.

**Glass Cutters.** For cutting tubing, pipettes, etc., into short lengths. A steel wheel makes an incision so that the tubing may be separated accurately at the desired point.

<i>Vedner</i>	9824	Each,	-	-	-	-	-	-	-	75
---------------	------	-------	---	---	---	---	---	---	---	----

**Glass Cutters.** For cutting glass plates.

<i>Vedoper</i>	9826	Each,	-	-	-	-	-	-	-	20
----------------	------	-------	---	---	---	---	---	---	---	----

**Glass Cutters.** Diamond, for accurate cutting of glass plates, etc.

<i>Vedpot</i>	9828	Each,	-	-	-	-	-	-	-	5 00
---------------	------	-------	---	---	---	---	---	---	---	------

**Glass Marker, Diamond.** A diamond point mounted in a convenient handle; for writing on glass.

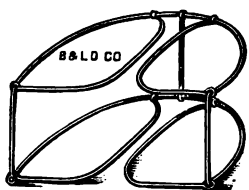
<i>Vedqud</i>	9830	Each,	-	-	-	-	-	-	-	1 50
---------------	------	-------	---	---	---	---	---	---	---	------

**Glass Marking Pencils, of wax.** Very useful in writing data on glass, as they will not scratch. Yellow or blue.

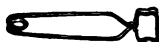
<i>Vedroy</i>	9832	Each,	-	-	-	-	-	-	-	15
---------------	------	-------	---	---	---	---	---	---	---	----

BRANCHES: NEW YORK CITY AND CHICAGO.

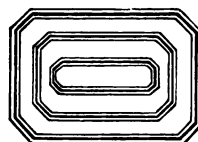
## Holder—Magnifier



No. 6592.



No. 8600.



No. 9848-9854.

**Holder, Petri-dish.** Useful for holding dishes in water and milk analysis ; of nicked steel wire with brazed joints ; holds 10 cm. dishes.

Telegraphic Code.	Catalogue Number.					A	B
<i>Vetfar</i>	6592	Capacity, dishes,	-	-	-	3	6
		Each,	-	-	-	\$ 50	60

**Holder, Test-tube.** Of spring wire.

						A	B
<i>Valbar</i>	8600	Size,	-	-	-	Small	Large
		Each,	-	-	-	\$ 15	20

**Knife, Potato.**

<i>Vefca</i>	6594	Each,	-	-	-	-	\$ 20
--------------	------	-------	---	---	---	---	-------

**Labels, Gummed.** White, with border.

<i>Vefceb</i>	9848	Size, 50 x 15 mm.	-	-	Per hundred,	10
<i>Vefcid</i>	9850	Size, 46 x 32 mm.	-	-	Per hundred,	10
<i>Vefrom</i>	9852	Size, 75 x 38 mm.	-	-	Per hundred,	12
<i>Vefcuy</i>	9854	Size, 85 x 65 mm.	-	-	Per hundred,	12

**Labels, Microscopical, in books ; 500 labels per book.** These labels are printed on best white gummed paper similar to No. 1762, and are cut between so as to be readily torn from the book, leaving clean edges. They are much more convenient than the cut labels.

<i>Rojabe</i>	1770	Square.	-	-	Per book,	30
<i>Rojolm</i>	1772	Oblong.	-	-	Per book,	30



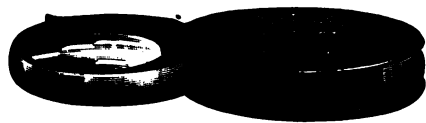
No. 163.

**Magnifier, Coddington.** Magnification, 7 diameters ; focal length, 37 mm. In folding pocket case.

<i>Pohar</i>	163	Each,	-	-	-	-	2 00
--------------	-----	-------	---	---	---	---	------

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# Magnifier—Measures



No. 68.

**Magnifiers, Hand.** The mountings are vulcanite, which is of light weight, neat and permanent; the lenses are accurately ground.

Telegraphic Code.	Catalogue Number.		Price.
<i>Paef</i>	68	With 37 mm. lens in oval mounting. Each,	\$ 50
<i>Pamg</i>	69	With 30 and 37 mm. lenses in oval mounting. Each,	80
<i>Peyaro</i>	121	With 18, 21 and 25 mm. lenses in bellows-shaped mounting. - - - - - Each,	80



No. Q R.

**Magnifier, Mounted on Tripod.** Lens adjustable for focus.

<i>Qacc</i>	Q R	Each,	- - - - -	50
-------------	-----	-------	-----------	----



No. 9869.

**Measuring Cones.** For measuring circular apertures, tubing, etc. Tenths of a millimeter may be read. Of steel, nickel-plated.

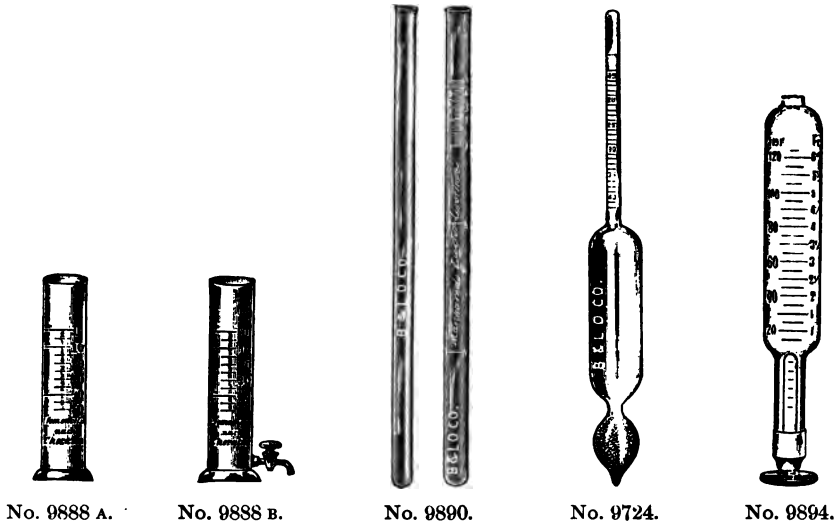
			A	B	C
<i>Veje</i>	9869	Length of graduations, mm.,	1-15	15-30	30-45
		Each,	\$1 50	2 00	2 50

**Measuring Tapes.** Graduated on one side in sixteenths of an inch to 36 inches, and in millimeters and centimeters to one meter on the other. In nickel-plated case with spring.

<i>Vejfo</i>	9876	Steel.	- - - - -	Each,	1 25
<i>Vejgab</i>	9878	Linen.	- - - - -	Each,	50

BRANCHES: NEW YORK CITY AND CHICAGO.

## Milk Testing Apparatus



Centrifuge, see page 50.

**Creamometer, Chevalier's.** For determining the amount of cream in a given quantity of milk. Graduated as shown.

Telegraphic Code.	Catalogue Number.				Price.
<i>Veflor</i>	9888	a. Without stop-cock.	-	-	Each, \$1 00
		b. With glass stop-cock.	-	-	Each, 2 50

**Lactobutyrometer, Caldwell's.** For determining the amount of fat in milk. Consists of graduated tube with rubber stopper, two pipettes, and one cylinder.

<i>Vefmeg</i>	6600	Complete,	-	-	-	-	-	2 50
---------------	------	-----------	---	---	---	---	---	------

**Lactobutyrometer, Marchand's.** For fat determination. Consists of a very narrow graduated tube and an ungraduated one. The graduations are for the reagents (10 cc.) and percentage of fats.

<i>Vefnul</i>	9890	Each,	-	-	-	-	-	75
---------------	------	-------	---	---	---	---	---	----

**Lactodensimeter (Lactometer).** For obtaining percentage of fat in milk.

<i>Vefoal</i>	6602	a. For human milk; plain cylinder.	Each,	2 00
		b. For cows' milk; graduated cylinder and thermometer.	In case,	1 50

**Lactometer, Quevenne's.** For the determination of the specific gravity of milk. The scale reads from 1.015 to 1.040 with large .001 divisions. Extra scales show the amount of dilution for skim and whole milk in 0.1, 0.2, 0.3, 0.4, and 0.5. The bulb is shot-filled and the spindle round.

<i>Vebkol</i>	9724	Each,	-	-	-	-	-	50
---------------	------	-------	---	---	---	---	---	----

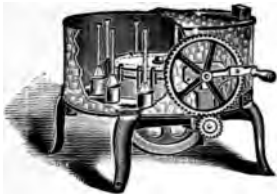
BAUSCH & LOMB OPTICAL CO., ROCHESTER, N



# Milk Testing Apparatus



No. 9896.



No. 9880.



Pipette of 9880.



No. 9882.



No. 9886.

**Lactoscope**, Feser's. For determining the richness of milk by its degree of translucency. It consists of a 120 cc. cylinder on a metal foot and has proper graduations for the percentage of fat. A graduated pipette and directions accompany the instrument, which is furnished in wooden case.

Telegraphic Code.	Catalogue Number.										Price.
<i>Vefpul</i>	9894	Each,	-	-	-	-	-	-	-	-	\$5 00

**Pioscope**, Heeren's. For determining the comparative richness of milk by comparison with colors denoting "very fat," "poor" qualities, etc. Consists of a rubber plate having a cell for the sample drops and a glass plate with colored segments arranged radially about the transparent center.

<i>Vefros</i>	9896	Each,	-	-	-	-	-	-	-	-	75
---------------	------	-------	---	---	---	---	---	---	---	---	----

**Paper**, Fat-extracted. Schleicher & Schnell's No. 571. For absorbing milk and use in the Adams method. In strips 6.5 x 56 cm.

<i>Vefgup</i>	6606	Per 50 sheets,	-	-	-	-	-	-	-	-	1 75
---------------	------	----------------	---	---	---	---	---	---	---	---	------

**Tester**, Babcock's. This apparatus furnishes a very convenient, accurate and rapid means of determining the amount of butter fat in whole milk, cream, skimmed milk, buttermilk, or whey. It is constructed so that sufficient speed is obtained with a small number of revolutions of the hand crank, 40 revolutions of which produce over 1100 revolutions of the bottle heads. When in motion the bottles take nearly a horizontal position. Prices include a full set of Babcock milk bottles, a pipette, an acid measure, acid sufficient for 50 to 100 tests, and directions.

			A	B	C
<i>Vefhan</i>	9880	Size, No. of bottles held,	4	8	12
		Each, <i>net</i> ,	\$7 50	9 25	13 25
<i>Vefit</i>	9882	Milk bottles for above.	-	Each, <i>net</i> ,	25
<i>Vafjac</i>	9884	Cream bottles for above.	-	Each, <i>net</i> ,	40
<i>Vefkrun</i>	9886	Pipette, Greiner's automatic acid, for above.			
		Capacity, 17.5 cc. Permits accurate measurements, the surplus overflowing into large bulb.			
		Each, <i>net</i> ,	-	-	1 00

BRANCHES: NEW YORK CITY AND CHICAGO.

Milk Apparatus—Needles

**Outfit, Inspectors.** Consists of Feser's lactoscope, a lactodensimeter, a thermometer, and cylinder in leather jar with directions.

Telegraphic Code.	Catalogue Number.								Price.
Vefur	6610	Complete,	-	-	-	-	-	-	\$12 00

**Outfit, Inspectors, Marchand's.** Consists of cream tubes, pipettes, and alcohol cup for heating cold milk, packed in a brass jar.

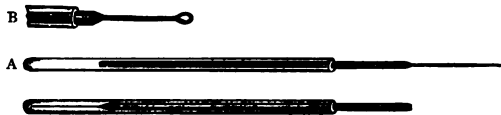
Vefvon	6612	Complete,	-	-	-	-	-	-	10 00
--------	------	-----------	---	---	---	---	---	---	-------

**Lens Paper, Japanese.** For cleaning lenses and cover-glass. In packages of 100 sheets.

Rovban	1840	a. Size: 18.5 x 27.5 cm.	-	Per package,	25
		b. Size: 27.5 x 37.5 cm.	-	Per package,	45



No. 9900.



No. 6620.

**Mills, Grinding.** For grinding up substances very fine which are to be used in the preparation of culture media. They grind evenly and can be regulated for different degree of fineness. Grinding parts are renewable.

Vefwil	9900				A	B	C
					170	170	225
		Grinding capacity per min., grams,	-	-	110	200	450
		Capacity, receptacle, grams,	-	-	20	26	26
		Diam., wheels, cm.,	-	-	30	37	50
		Height, cm.,	-	-			
		Each, net,	-	-	\$3 50	4 50	8 00

**Needle, Inoculating.** Platinum points are set in aluminum handles which permit the reversal of the points into them when the instrument is to be carried in the pocket. These needles are smaller and neater than those ordinarily supplied for such use. Form B is useful in transferring growth on bouillon cultures of tuberculosis, and is not reversible in holder.

Vegan	6620	Shape,				A	B
						Straight	Twisted Loop
		Each,	-	-	-	\$ 35	50



No. 6622.

**Needle, Inoculating.** Of platinum, set in glass handle.

Vegber	6622	Length, cm.,					A	B
							4	8
		Each,	-	-	-	-	\$ 35	65

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# **Nutrient Substances—Pipette Box**

## **Nutrient, Agar Agar.**

Telegraphic Code.	Catalogue Number.			Price.
<i>Vegbig</i>	6640	Of best quality, in shreds.	Per 500 grams,	\$1 00
<i>Vegbiga</i>	6642	In substance (pulverized).	Per 25 grams,	35
<i>Vegbimo</i>	6643	In substance (pulverized).	Per 500 grams,	3 50

## **Nutrient, Beef Extract.**

<i>Vegbof</i>	6644	Liebig's.	- - -	Per 125 gram can,	1 25
<i>Vegbofa</i>	6646	U. S.	- - -	Per 125 gram can,	1 25

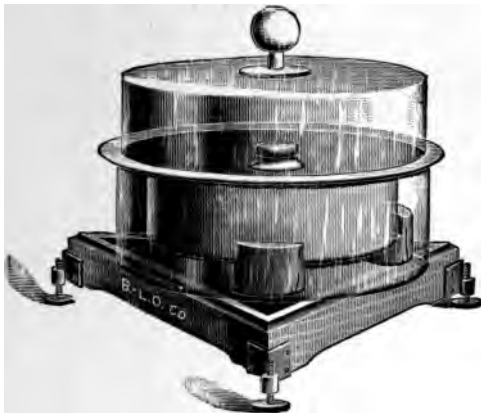
## **Nutrient, Gelatin.**

<i>Vegbul</i>	6650	Of best white quality, "gold label."	Per 500 grams,	90
<i>Vegbula</i>	6652	U. S. best, "gold label."	Per 500 grams,	75

## **Nutrient, Peptonum Siccum.**

<i>Vegcep</i>	6656	Witte's.	- - -	Per 125 gram bottle, <i>net</i> ,	90
<i>Vegcepa</i>	6658	Witte's.	- - -	Per 500 gram bottle, <i>net</i> ,	3 00
<i>Vegcit</i>	6660	U. S. Pure, guaranteed.		Per 500 grams,	2 25

**Nutrient Substances, see Catalogue G.**



No. 6770.



No. 6774.

**Nivellating Apparatus.** For leveling culture media during solidification. The triangular base has leveling screws and there is a double glass receiver for ice, a ground glass plate for supporting plates, a bell-jar cover, and a circular level.

<i>Vegcod</i>	6770	Complete,	- - - - -	8 00
---------------	------	-----------	-----------	------

**Pipette Box.** Of sheet iron; for containing pipettes during sterilization and for storing them sterile until wanted for use; deep, overhanging cover.

<i>Vegeb</i>	6774	Each,	- - - - -	1 50
--------------	------	-------	-----------	------

BRANCHES: NEW YORK CITY AND CHICAGO.

# Platinum-ware

The articles listed below are made entirely of *pure* platinum, which is not spun but hammered into the various forms. Every one is guaranteed perfect. They are sold by actual weight at current market prices. The weights given below are approximate and will aid in estimating the price of articles.

Owing to the fluctuating value of this metal, prices are omitted. Quotations will be furnished on request.



No. 9946.



A



B



C

No. 9972.

**Platinum Crucibles.** With or without cover, hammered, guaranteed. Weight with cover approximately as many grams as capacity in cubic centimeters. Covers are included unless otherwise ordered.

Telegraphic Code.	Catalogue Number.		A	B	C	D	E	F		
<i>Vegfad</i>	9946	Capacity, cc.,	-	-	8	10	12	15	20	25
		Approximate weight, grams,	8	10	11	14	18	24		
		Per gram,	-	-	-	[Market price.]				
			G	H	J	K	L	M		
		Capacity, cc.,	30	35	40	45	50	55		
		Approximate weight, grams,	27	33	37	44	51	56		
		Per gram,	-	-	-	[Market price.]				
			N	O	P	R	S	T		
		Capacity, cc.,	60	70	80	90	100	110		
		Approximate weight, grams,	62	65	68	70	80	90		
		Per gram,	-	-	-	[Market price.]				
		Other sizes to order.								

## Platinum Foil.

*Veghug* 9960 All sizes and thicknesses. - Per gram [Market price.]

**Platinum Pans.** Style A is for sugar, B for iron, steel, and water, and C for milk analysis.

			A	B	C
<i>Veghye</i>	9972	Capacity, cc.,	-	-	-
		Approximate weights, grams,	-	35	45
		Per gram,	-	16	15
			-	-	17
			-	-	[Market price.]

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y

# Platinum—Porcelain-ware



No. 9988.

**Platinum Triangles.** With nickel plated iron holders and clamp. Holder will accommodate any size of triangle up to those for 100 cc. crucible. Triangles can be made of any size wire, thus making them lighter or heavier as desired. Stock triangles weigh as follows:

Telegraphic Code.	Catalogue Number.			A	B	C	D
<i>Vegid</i>	9988	Size of wire, mm.,	- -	1.19	1.19	1.27	1.27
		Crucible contents, cc.,	-	12	15	20	30
		Approximate weight, grams,		2	2.5	4.5	5
		Each,	- - - -	[Depend. price platinum.]			
				E	F	G	H
		Size of wire, mm.,	- -	1.57	1.57	1.63	1.23
		Crucible contents, cc.,	-	40	60	80	100
		Approximate weight, grams,		7.5	8	9	10
		Each,	- - - -	[Depend. price platinum.]			

## Platinum Wire.

*Vegjar* 9990 Any size. - - - - Per gram [Market price.]

Platinum, other articles, see Catalogue F.

**Pliers, Flat nose.** Of steel, Stubb's pattern.

				A	B	C	D
<i>Vegkad</i>	10000	Length, mm.,	- -	110	125	150	200
		Each,	- - - \$	40	45	50	1 00

**Pliers, Wire cutting.** Stubb's end cut.

						A	B
<i>Veglum</i>	10002	Length, mm.,	- - - -	-	-	110	150
		Each,	- - - -	-	-	\$ 75	1 00

# Porcelain-ware



No. 10028.



No. 10034.



No. 10038.



No. 10040.

**Porcelain Crucibles, Meissen form, with cover.**

			A	B	C	D	E	F	G	H
<i>Vegmos</i>	10028	Numbers,	8	7	6	5	4	3	2	1
		Capacity, cc.,	8	14	30	45	60	90	120	170
		Each,	- \$	15	15	18	20	25	30	40 50

BRANCHES : NEW YORK CITY AND CHICAGO.

## Porcelain-ware

**Porcelain Evaporating Dishes.** Of Berlin porcelain, glazed inside and outside up to No. 5. (See cut on page 129.)

Telegraphic Code.	Catalogue Number.		AA	A	B	C	D
<i>Vegnat</i>	10034	Numbers,	000	00	0	1	2
		Capacity, cc.,	15	30	45	60	90
		Diameter, mm.,	25	70	80	85	90
		Each, -	\$ 10	12	14	16	20
		Numbers,	E	F	G	H	J
			3	4	5	6	7
		Capacity, cc.,	120	160	240	320	650
		Diameter, mm.,	100	110	120	145	180
		Each, -	\$ 25	35	45	60	75

**Porcelain Evaporating Dishes.** Of best German porcelain, glazed inside.

<i>Vegog</i>	10036		A	B	C	D	E	F	G	H
		Numbers,	00	0	1	2	3	3a	4	5
		Capacity, cc.,	100	150	250	400	600	800	1000	1500
		Diameter, mm.,	95	115	140	170	195	215	235	260
		Each, -	\$ 15	20	25	30	40	50	60	75
		Numbers,	J	K	L	M	N	O	P	
			6	7	8	9	10	11	12	
		Capacity, cc.,	2000	3000	3500	4500	5500	6000	7500	
		Diameter, mm.,	285	300	315	340	385	405	450	
		Each, -	\$ 1 00	1 25	1 50	2 00	2 50	3 00	3 50	

**Porcelain Evaporating Dishes.** Of Berlin porcelain, glazed inside; fitted with wooden handle. (See cut on page 129.)

<i>Vegpad</i>	10038		A	B	C	D	E
		Numbers,	1	2	3	4	5
		Capacity, cc.,	30	50	120	250	500
		Diameter, mm.,	60	70	100	125	170
		Each, -	\$ 30	40	50	75	1 25

**Porcelain Dishes.** For staining, etc., in nests of five dishes, and cover. (See cut on page 129.)

<i>Vegrah</i>	10040		A	B	C	D
		Diameter outside, mm.,	64	72	84	100
		Per nest, -	\$ 60	70	80	1 00

**Porcelain Dishes.** Same style as No. 10040, but deeper, in nests of three, with cover.

<i>Vegsod</i>	10042		A	B	C
		Diameter outside, mm., -	72	84	100
		Per nest, -	\$ 75	1 00	1 25

Dishes similar to the above of glass, see Glassware.

**Porcelain Filter Rings.** (See cuts, page 131.)

<i>Vegted</i>	10044	With two arms.	-	-	-	-	Each, \$	20
<i>Vegum</i>	10046	With three arms.	-	-	-	-	Each,	30

**Porcelain Filter Tubes,** for the Chamberland or Kitasato filters.

<i>Vegvor</i>	6780	Each, -	-	-	-	-	-	25
---------------	------	---------	---	---	---	---	---	----

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y

# **Porcelain-ware**



No. 10044.



No. 10046.



No. 10048.



No. 10050.

## **Porcelain Funnels, Plain. With handle.**

<i>Vegvum</i>	10048					A	B	C
						100	300	700
		Capacity, cc.,	-	-	-	90	125	170
		Diam., mm.,	-	-	-			
		Each,	-	-	-	\$ 40	60	80

## **Porcelain Funnels, Ribbed. With handle.**

<i>Veggel</i>	10050					A	B	C
						100	300	700
		Capacity, cc.,	-	-	-	90	125	170
		Diam., mm.,	-	-	-			
		Each,	-	-	-	\$ 50	75	1 00

## **Porcelain Plates, Perforated. For use in funnels.**

<i>Veggdan</i>	6782					A	B	C
						38	50	75
		Diam., mm.,	-	-	-			
		Each,	-	-	-	\$ 15	20	30

## **Porcelain Plates, Staining. With twelve cavities for stains.**

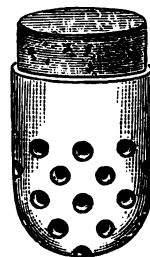
<i>Veggept</i>	6784	Each,	-	-	-	-	-	\$ 60
----------------	------	-------	---	---	---	---	---	-------



No. 10062.



No. 10064.



No. 6786.

## **Porcelain Mortars. Shallow form with pestle; glazed inside and outside.**

<i>Vehah</i>	10062					A	B	C	D	E
						60	175	500	1000	3000
		Capacity, cc.,	-			80	110	150	200	260
		Diameter, mm.,	-							
		Each,	-	-		\$ 40	65	1 00	1 50	2 50

## **Porcelain Mortars. Deep form, conical, with pestle; rough inside and glazed outside.**

<i>Vehblad</i>	10064			A	B	C	D	E
				70	200	600	2000	3000
		Capacity, cc.,	-	80	110	150	200	260
		Diameter, mm.,	-					
		Each,	- -	\$ 40	65	1 00	1 50	2 50

Mortars, see Glassware.

BRANCHES: NEW YORK CITY AND CHICAGO.

## Porcelain-ware—Razor



No. 10066.



No. 10068.

### Porcelain Spatulas, double end.

Telegraphic Code.	Catalogue Number.		A	B	C	D	E
<i>Vehcy</i>	10066	Length, mm.,	105	130	160	185	235
		Each, -	\$ 25	30	35	40	50

### Porcelain Spatulas, single end.

			A	B	C	D	E
<i>Vehdory</i>	10068	Length, mm.,	105	130	160	185	235
		Each, -	\$ 20	25	30	35	45

**Porcelain Swimming Cups**, with perforations and cork stopper. Floats about in water and washes tissues contained within it. *See Journal of Applied Microscopy, Vol. II, No. 4, p. 349, April, 1899.*

					A	B
<i>Vehel</i>	6786	Diameter, mm.,	-	-	25	35
		Height, mm.,	-	-	35	50
		Each, -	-	-	\$ 60	75

### Porcelain Troughs, pneumatic, oblong.

					A	B
<i>Vehgef</i>	10072	Length, mm.,	-	-	150	180
		Each, -	-	-	\$1 00	1 50

Troughs, pneumatic, see Troughs.



No. 10080.



No. 6790.

**Press, Meat and Tincture.** Specially adapted for preparing culture media, made very strong and durable; may be screwed to table.

			A	B	C	D
<i>Vehhill</i>	10080	Capacity, litres, -	1	2	4	8
		Weight, kilos,	9	12	20	30
		Each, net, -	\$2 50	3 50	6 00	8 00

**Razor, Robb's Aseptic.** For shaving animals preparatory to inoculation. It is easily cleaned and sterilized and there are no joints to accumulate septic matter.

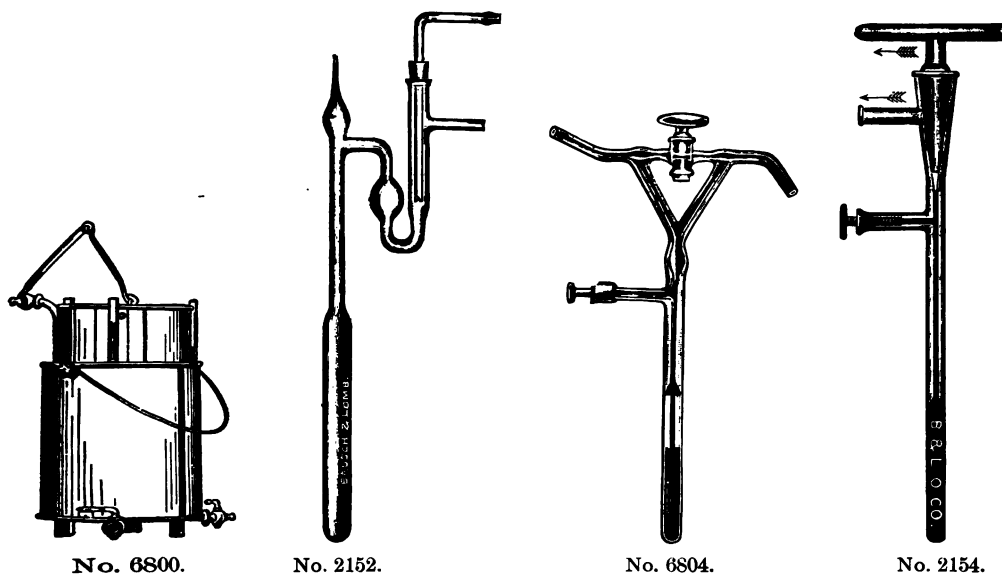
<i>Vehine</i>	6790	In wooden case, -	-	-	-	\$2 00
---------------	------	-------------------	---	---	---	--------

Razors, see also Dissecting Apparatus.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.



## Regulators



**Regulator, Gas-pressure.** For delivering gas to apparatus at a constant pressure regardless of the pressure variations in the supply. This apparatus relieves a thermo-regulator from attempting to compensate for wide variations in the gas pressure, and makes the maintenance of a uniform temperature comparatively easy even under very adverse conditions. In fact, in connection with thermo-regulators, temperatures of 100 degrees apart may be maintained simultaneously in two pieces of apparatus, so even is the regulation.

Telegraphic Code.	Catalogue Number.									Price.
<i>Vehjar</i>	6800	Each,	-	-	-	-	-	-	-	\$6 00

**Regulator, Thermo, Dunham's.** This is an extremely sensitive and simple regulator. Its sensitiveness is derived from the use of alcohol in a large sized bulb. The minute changes in the volume of alcohol caused by temperature variations act on the column of mercury in the U-shaped arm and regulate the passage of gas through the side tubes.

<i>Runcue</i>	2152	Complete, with fluids,	-	-	-	-	-	-	3 50
---------------	------	------------------------	---	---	---	---	---	---	------

**Regulator, Thermo, Muencke's improved.** For low pressure only. When the temperature rises the passage of gas through the side tubes is prevented by mercury closing them at the point of joining. Expanding air or ether vapor contained in the bulb forces the mercury up. A stop-cock controls the passage of gas through a third tube to the reserve flame. The inlet and outlet tubes are very strong.

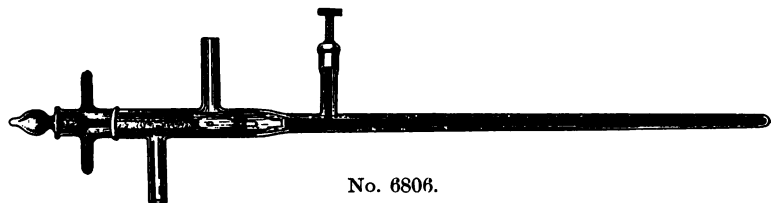
<i>Vehler</i>	6804	Each,	-	-	-	-	-	-	5 50
---------------	------	-------	---	---	---	---	---	---	------

BRANCHES: NEW YORK CITY AND CHICAGO.

# Regulators

**Regulator, Thermo, Reichert's.** Consists of a very small, straight tube containing mercury and having a regulating screw and a gas chamber above to which inlet and outlet tubes are connected. As the temperature can be more accurately controlled if a regulator is adjusted to a certain flow of gas, this regulator has been standardized as follows: (See cut on page 133.)

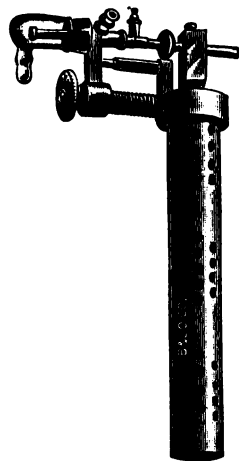
Telegraphic Code.	Catalogue Number.		Price.
<i>Runrei</i>	2154	a. For high temperatures and burners having an equal or greater capacity than No. 8408. Each,	\$2 00
		b. For low temperatures and burners having as low a capacity as No. 8418, and may be used with Nos. 8420, 8432, 8446, 8448, and 8450. Each,	2 00
		c. Short form for Water Baths and burners Nos. 8418 or 8420. - - - - Each,	2 00



No. 6806.

**Regulator, Thermo, Reichert-Novy's.** This improved regulator is designed to prevent the passage of more gas through the minimum opening than is required to maintain the desired temperature. Regulation of the maximum inflow is also accomplished so that it is possible to have a large supply of gas and to use this regulator for high as well as comparatively low temperatures. Very sensitive. *See Journal of Applied Microscopy, Vol. I, No. 5, May, 1898.*

<i>Vehmag</i>	6806	Each,	- - - - -	5 00
---------------	------	-------	-----------	------



No. 6810.



No. 6814.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y

Regulators

**Regulator, Thermo, Roux's bi-metallic.** Two metals having different coefficients of expansion are used to obtain the regulation instead of fluids. This regulator, therefore, possesses the important advantage of being free from liquids and glassware. It is very sensitive and will work equally well in any position.

Telegraphic Code.	Catalogue Number.		A	B	C
<i>Vehmex</i>	6810	Length, cm.,	15	25	40
		Each,	\$13 50	24 00	30 00

**Regulator, Thermo, Soxhlet's.** A simple regulator consisting of a glass tube of special form with inner tubes for controlling the passage of gas. Alcohol, etc., may be used for sensitive fluid.

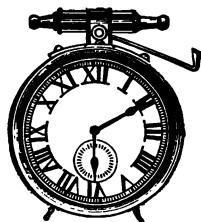
<i>Vehmohl</i>	6812	Each,	-	-	-	-	-	-	-	1 00
----------------	------	-------	---	---	---	---	---	---	---	------

**Regulator, Thermo, Electric.** For use with oil lamp; designed to meet the demands of laboratories not equipped with gas; effective, accurate, and attachable to any of our Laboratory incubators, Nos. 6000-6012.

The regulation is effected by the opening and closing of the chimney draught of the lamp used for heating. A damper placed over the chimney is actuated by electro-magnets whose circuits are closed by a thermal-bar electrically connected to them and inserted in the tubulation regularly provided for thermo-regulators.

In ordering, designate size of Laboratory Incubator which is to be regulated, as regulators can only be attached to support before leaving our works, *i. e.*, incubator support and electric regulator are furnished together only.

<i>Vehnak</i>	6814	Complete, with oil lamp, battery, and incubator support of proper size,	-	-	-	-	-	-	-	25 00
---------------	------	---	---	---	---	---	---	---	---	-------



No. 6816.

**Regulator, Time.** For shutting off the supply of gas at any desired time on incubators, autoclaves, sterilizers, water-baths, or other gas-heated apparatus. Consists of a specially constructed clock with timing device and gas valve. The gas valve is connected by rubber tubing between the supply of gas and the apparatus which it is to regulate. The valve is kept open by a lever attached to it engaging with a spiral thread, on the minute arbor of the clock, and is closed when the lever leaves the arbor. Very delicate adjustment for time control may be made. The gas valve is metallic, gas-tight, and operates with ease and certainty.

<i>Vemereg</i>	6816	Each,	-	-	-	-	-	-	-	4 00
----------------	------	-------	---	---	---	---	---	---	---	------

BRANCHES: NEW YORK CITY AND CHICAGO.

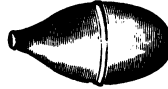
## Rubber Goods



No. 10104.



No. 10106.



No. 10106.



No. 10114.

### Rubber Bands. Of pure gum, assorted sizes.

Telegraphic Code.	Catalogue Number.		Price.
<i>Vehpot</i>	10104	In box, - - - - -	\$1 75

### Rubber Bulbs. Of pure gum, for pipettes.

<i>Vehob</i>	10106	Capacity, 2 cc. - - - -	Per ten,	25
<i>Vehoca</i>	10108	Capacity, 5 cc. - - - -	Per ten,	30
<i>Vehode</i>	10110	Capacity, 10 cc. - - - -	Per ten,	40
<i>Vehoel</i>	10112	Capacity, 20 cc. - - - -	Per ten,	1 50

### Rubber Caps. For covering the tops of test-tubes, etc.

<i>Vehofap</i>	10114	For 15 mm. diameter and larger. -	Per ten,	25
<i>Vehogur</i>	10116	For less than 15 mm. diameter.	Per ten,	30

### Rubber Fingers. Of pure gum.

<i>Vehwa</i>	10118	Small, for women. - - - -	Per ten,	35
<i>Vehweb</i>	10120	Large, for men. - - - -	Per ten,	40



No. 10122.



No. 10126.

### Rubber Gloves. Of pure gum, 125 mm. gauntlet.

<i>Vejag</i>	10122	Sizes 6 to 9, for women. - - - -	Per pair,	1 25
<i>Vejcug</i>	10124	Sizes 10 to 12, for men. - - - -	Per pair,	1 50

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Rubber Goods

**Rubber Stoppers.** Of pure gum and best quality. These stoppers will not harden. They are furnished with one or two holes, but will be sent solid unless otherwise specified. Length of stoppers, 25 mm.

Telegraphic Code.	Catalogue Number.	Numbers,	AA 00	A 0	B 1	C 2	D 3	E 4	F 5	G 6
<i>Vejdux</i>	10126	Diam. top, mm.,	14	17	19	20	23	25	28	32
		Diam. bottom, mm.,	9	12	15	16	18	20	22	26
		Approx. number with two holes in 470 grams, )	194	128	93	78	63	51	42	31
			H 7	J 8	K 9	L 10	M 11	N 12	O 13	
		Diam. top, mm.,	36	40	45	49	55	65	70	
		Diam. bottom, mm.,	29	32	36	42	50	57	60	
		Approx. number with two holes in 470 grams, )	23	19	15	11	9	7	6	
		Per 470 grams (1 lb.),	-	-	-	-	-	-	\$3 00	

### Rubber Tissue.

<i>Vejes</i>	6820	Per 25 grams,	-	-	-	-	-	-	-	25
--------------	------	---------------	---	---	---	---	---	---	---	----

**Rubber Tubing.** Of best quality; will not harden.

			A	B	C	D	E	F	G
<i>Vejful</i>	10128	Inside diam., mm.,	1.5	3	5	6	8	9	12
		Per 30 cm.,	\$ 06	08	10	12	15	20	30

**Rubber Tubing.** White, heavy wall for gas, etc.

			A	B	C	D	E	F	G
<i>Vejgot</i>	10130	Inside diam., mm.,	1.5	3	5	6	8	9	12
		Per 30 cm., -	\$ 05	06	07	08	10	15	20

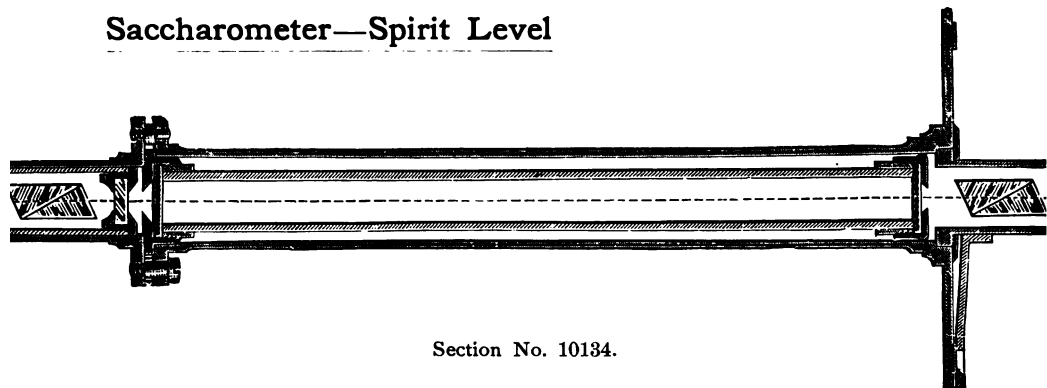
**Rubber Tubing.** Cloth covered, of extra quality for laboratory use. This tubing will not split, is air-tight, and suitable for either gas or fluids. It is very flexible.

			A	B	C	D	E	F	G		
<i>Vejhig</i>	6822	Inside diam., mm.,	-	3	5	6	9	12	15	18	
		Per 30 cm.,	-	-	\$ 05	07	10	15	20	26	30

**Rubber Tubing.** For use under pressure, with filter pumps, etc.

				A	B	C	D	
<i>Vejhot</i>	6824	Inside diam, mm.,	-	-	5	6	9	12
		Per 30 cm.,	-	-	16	25	40	60

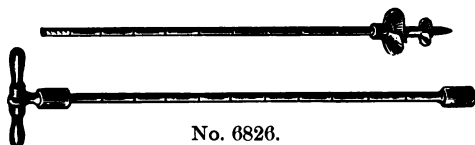
# Saccharometer—Spirit Level



Section No. 10134.

**Saccharometer**, Zeiss Portable. For ascertaining the rotatory power and percentage of sugar, etc., in solutions. It provides for the use of a 200 mm. layer of sugar solution, whose rotatory power is measured in degrees and seconds. The analyzer and polarizer are Nicol's prisms. Observations are made by holding the instrument in the hand and directing it toward a suitable background. The sugar solution is held by a removable glass cylinder closed at both ends by glass plates.

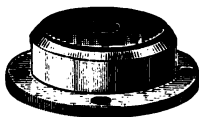
Telegraphic Code.	Catalogue Number.		Price.
<i>Vejger</i>	10134	In handsome case, with directions.	Each, <i>net</i> , \$35 00



No. 6826.



Boring Point of No. 6828.



No. 6830.

**Soil Borer**, American form. For taking samples of earth at any depths. It has a steel boring point screwed to a steel rod with wooden handle.

<i>Vejkam</i>	6826	Diam., cm.,				A	B	C
			-	-	-	5	10	16
		Each,	-	-	-	\$4 00	5 50	8 00

**Soil Borer**, Fränkel's. Complete with handle. The handle of form B is in two sections.

<i>Vejlor</i>	6828	Length, cm.,					A	B
			-	-	-	-	100	200
		Each,	-	-	-	-	\$18 00	25 00

**Spirit Level**. Useful when solidifying media, etc.

<i>Vejmel</i>	6830	Each,	-	-	-	-	-	2 00
---------------	------	-------	---	---	---	---	---	------

## Stills



No. 10168.



No. 10172 a.  
Complete.



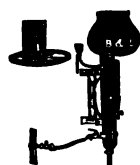
No. 10172 b.  
Base only.

**Still, Ralston.** For a new process of water distillation. Made of the best quality cold-rolled copper and lined with pure block tin which will not corrode nor rust. This still cannot boil dry (see illustration) and can be operated on a stove, or over a gas or oil flame. It is a thoroughly practical still at a low price. Its capacity is 1000 cc. per hour. Diameter, 22.5 cm.; height, 35 cm.

Telegraphic Code.	Catalogue Number.	Price.
<i>Vejsil</i>	10168	Each, <i>net</i> , - - - - - \$10 00

**Still, Rochester.** For water and spirits distillation. This still is made of copper and consists of two parts: the base or boiler, and the condenser. It can be used on a stove, or over a gas or oil flame. If to be used for reclaiming alcohol or fluids other than water, the Rochester base is recommended. The Arnold base is suitable for water distillation. Capacity, 1000 cc. in forty-five minutes. Height, 65 cm.

<i>Vejsil</i>	10172	<i>a.</i> With Rochester base; diam., 27.5 cm.	Each,	15 00
		<i>b.</i> With Arnold base; diam., 35 cm.	Each,	15 00



No. 10176.



No. 10178.



No. 10180.

**Still, Jewell.** For water, medium size. The retort and condenser are combined in one iron casting with a straight, double tin-plated copper condensing tube which is held in position by a nut. A pure block-tin connecting tube for water supply and bracket are furnished. This still is recommended for its simplicity and durability. Capacity, 2000 cc. per hour; operated by gas.

<i>Vejtej</i>	10176	Each, <i>net</i> , - - - - - 15 00
---------------	-------	------------------------------------

BRANCHES: NEW YORK CITY AND CHICAGO.

## Stills—Stop-cocks

**Still, Jewell.** For water, large size. Heated with regular Bunsen gas burners, supplied with the still. Very substantially built, all parts are accessible and in sight. Furnished with block-tin tube for connection to water supply and shelf as shown with No. 10176. Capacity, 6000 cc. per hour. (See cut on page 139.)

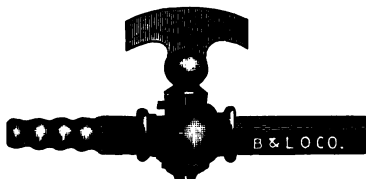
Telegraphic Code.	Catalogue Number.							Price.
<i>Vejul</i>	10178	Each, <i>net</i> ,	-	-	-	-	-	\$35 00

**Still, for water or spirits.** A tin-lined copper retort and zinc cooler, with tin worm, receiving funnel for cold water and outlet for the hot water. (See cut on page 139.)

<i>Vejvas</i>	10180	Capacity, litres,	A	B	C	D	E
			2	4	8	12	20
		Each, - - -	\$9 00	11 00	14 00	17 00	20 00



No. 10184.



No. 10191.

**Stone Jar.** For refuse and infected material, with two handles and cover.

<i>Vekbog</i>	10184	Capacity, litres,	-	A	B	C	D	E
			-	8	16	24	30	40
		Each, - - -	\$	75	1 25	1 75	2 25	3 00

**Stop-cocks, Brass.** Both ends with male thread.

<i>Vekcur</i>	10190	Bore, mm.,	-	-	-	-	A	B
			-	-	-	-	3	6
		Each, - - -	-	-	-	-	\$ 75	1 00

**Stop-cocks, Brass.** One end for tubing, the other with male or female thread. (In ordering designate the thread desired.)

<i>Vekdab</i>	10191	Bore, mm.,	-	-	-	-	A	B
			-	-	-	-	3	6
		Each, - - -	-	-	-	-	\$ 75	1 00

**Stop-cocks, Brass.** Air and gas-tight; double ends for tubing connections.

<i>Vekel</i>	10192	Bore, mm.,	-	-	-	-	A	B
			-	-	-	-	3	6
		Each, - - -	-	-	-	-	\$ 75	1 00

**Stop-cocks, Brass.**

<i>Vekfed</i>	10193	a. Male and female thread,	-	-	Each,	1 00
		b. Both ends with female thread,	-	-	Each,	1 00

**Stop-cocks, Brass.** With connections for gas bags.

<i>Vekhon</i>	10195	Size, - - -	Small	Medium	Large
		Each, - - -	\$1 00	1 25	1 50

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N



## Supports



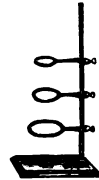
No. 10210.



No. 10212.



No. 10214.



No. 10216.

### Supports, Apparatus.

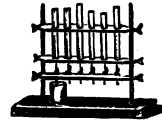
Telegraphic Code.	Catalogue Number.		Price.
<i>Vekim</i>	10210	Circular base. - - - - -	Each, \$ 50
<i>Vekjo</i>	10212	Rectangular flat base. - - - - -	Each, 35
<i>Vekke</i>	10214	Tripod base. - - - - -	Each, 40
<i>Veklum</i>	10215	Rectangular base with two rings. Complete,	45
<i>Vekmer</i>	10216	Rectangular base with three rings. Complete,	65
<i>Vekmus</i>	10218	Rectangular base with four rings. Complete,	1 00
<i>Vekop</i>	6886	Rectangular base, extra heavy, with four rings. - - - - - Complete,	1 25



No. 10220.



No. 10222.



No. 10224.

### Supports, Bunsen's Universal Apparatus. Complete with:

2-clamp holders	8580	1-clamp	8588
1-clamp holder	8582	1-clamp	8574
3-rings	10248	1-clamp	8586
1-fork for burner.			

*Vekpok* 10220 On support 10212. - - - Complete, 5 00

### Support, Burette. For two burettes, with double clamp and support.

*Vekrug* 10222 Complete, - - - - - 1 25

### Support, Burette. Adjustable rack for six burettes.

*Veksor* 10224 Complete, - - - - - 6 00



No. 10226.



No. 10228.



No. 10232.

## Supports

**Support, Burette.** Revolving stand for four burettes, with round wooden base. (See cut on page 141.)

Telegraphic Code.	Catalogue Number.								Price.
<i>Vektom</i>	10226	Each,	-	-	-	-	-	-	\$4 00

**Support, Burette.** Revolving stand for eight burettes, with square wooden base. (See cut on page 141.)

<i>Vekut</i>	10228	Each,	-	-	-	-	-	-	3 00
--------------	-------	-------	---	---	---	---	---	---	------

**Support, Filter.** Adjustable for height, holds four funnels. With 4-hole arm. (See cut on page 141.)

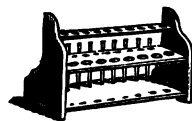
<i>Velar</i>	10232	Complete,	-	-	-	-	-	-	90
--------------	-------	-----------	---	---	---	---	---	---	----

**Support, Funnel.** Triangular, to place on beakers, etc.; of wood.

				A	B	C	D
<i>Velcul</i>	10234	Diam., mm.,	-	50	100	150	200
		Each,	-	\$ 15	20	25	30



No. 10236.



No. 10242.



No. 10244.



No. 10248.

No. 10250.

**Support, Pipette.** Revolving support with perforated discs for a number of pipettes. It will prevent breakage, and drain pipettes properly.

<i>Velda</i>	10236	Each,	-	-	-	-	-	-	2 50
--------------	-------	-------	---	---	---	---	---	---	------

**Support, Test-tube.** Of wood.

<i>Velet</i>	10238	For twelve tubes.	-	-	-	-	Each,	25
<i>Velfor</i>	10240	For thirty tubes.	-	-	-	-	Each,	35
<i>Velgup</i>	10242	For thirty tubes, and with pins for drying.	-	-	-	-	Each,	50

**Support, Test-tube.** Of nickeled wire. These supports are very light, clean and convenient. They may also be used for drying.

<i>Velhug</i>	10244	Square in shape; for forty-nine tubes.	Each,	40
<i>Vellut</i>	10246	Circular in shape; for forty tubes.	Each,	40

**Support Rings.** For apparatus; with clamp end.

				A	B	C	D
<i>Vembor</i>	10248	Diam., mm.,	-	55	75	100	150
		Each,	-	\$ 15	18	20	25

**Support Rings.** With extension; applicable to any support by use of an attachable clamp. (See page 54.)

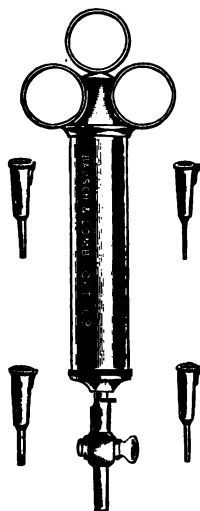
				A	B	C	D
<i>Vemcus</i>	10250	Diam., mm.,	-	55	75	100	150
		Each,	-	\$ 15	18	20	25

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Syringes

**Syringe, Hypodermic.** Glass barrel with metal shield; capacity, 25 cc.; graduated plunger; finger rest attachment; two needles and cleaners, and glass vial.

Telegraphic Code.	Catalogue Number.		Price.
<i>Rumusa</i>	2120	In case, - - - - -	Complete, \$1 50
<i>Rumuso</i>	2122	Extra needles. - - - - -	Each, 10



No. 2124.



No. 2128.

**Syringe, Injecting.** Of metal, nicked; capacity, 20 cc.; detachable stop-cock, and four canulas with ligature catch.

<i>Rumute</i>	2124	In case, - - - - -	Complete, 8 00
---------------	------	--------------------	----------------

**Syringe, Injecting.** Barrel of glass; capacity, 40 cc.; in metal frame with finger rest attachment; plunger graduated to one-half cubic centimeters; two-way stop-cock, one small, one medium, and one large needle with cleaners, and a trocar.

<i>Rumutor</i>	2126	In case, - - - - -	Complete, 4 50
----------------	------	--------------------	----------------

**Syringe, Injecting, Bottle Retort.** For injection of large quantities of reagents. Barrel of metal; double-packed plunger; automatic two-way cock in nozzle; two-branched attachment with stop-cock for bottle; three needles and a trocar. Corrosive fluids may be used without injury, as fluid does not enter the syringe barrel.

<i>Rumnox</i>	2128	In case, - - - - -	Complete, 12 00
<i>Rumuy</i>	2130	Extra needles. - - - - -	Each, 10



No. 6840.

BRANCHES: NEW YORK CITY AND CHICAGO.

## Syringes—Trough

**Syringe, Koch's.** With two extra needles. In case.

Telegraphic Code.	Catalogue Number.		A	B	C
<i>Vemdoc</i>	6840	Capacity, cc., - - - -	1	2	5
		Each, - - - -	\$1 50	2 00	2 50
<i>Vemduca</i>	6842	Extra needles. - - - -	-	Each,	\$ 10

**Syringe, Pravaz's.** With two extra needles. In case.

			A	B	C
<i>Vemep</i>	6846	Capacity, cc., - - - -	1	2	5
		Each, - - - -	\$ 50	75	1 00
<i>Vemepra</i>	6848	Extra needles. - - - -	-	Each,	10

**Tin Foil, heavy.** For hermetically sealing test-tubes, flasks, etc.

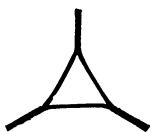
<i>Vemfal</i>	6866	Per 500 grams, - - - -	-	-	75
---------------	------	------------------------	---	---	----

**Tin Foil.** For general laboratory purposes. Chemically pure.

<i>Vemgig</i>	6868	Per 500 grams, - - - -	-	-	75
---------------	------	------------------------	---	---	----



No. 6870.



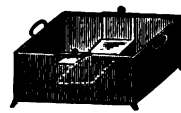
No. 10270.



No. 10272.



No. 10280.



No. 10290.

**Tongs, Rat.**

<i>Vemhone</i>	6870	Each, - - - -	-	-	75
----------------	------	---------------	---	---	----

**Triangle, Iron.**

			A	B	C
<i>Vemir</i>	10270	Size, - - - -	Small	Medium	Large
		Per ten, - - - -	\$ 40	40	40

**Triangle, Iron.** Covered with pipe stem.

			A	B	C
<i>Vemjur</i>	10272	Size, - - - -	Small	Medium	Large
		Per ten, - - - -	\$ 60	60	60

**Tripod, Iron.** For water and sand baths, retorts, etc.

<i>Vemlog</i>	10280	Diameter, 70 mm.; 1 ring. - -	-	Each,	25
<i>Vemnir</i>	10282	Diameter, 150 mm.; 3 rings. - -	-	Each,	50
<i>Vemod</i>	10284	Diameter, 200 mm.; 5 rings. - -	-	Each,	65
<i>Vempa</i>	6874	Diameter, 250 mm.; 5 rings. - -	-	Each,	90
<i>Vemqu</i>	6876	Diameter, 300 mm.; 6 rings. - -	-	Each,	1 00

**Trough, Pneumatic.** Of japanned metal with sliding shelf, and overflow.

			A	B	C
<i>Vemrod</i>	10290	Size, cm.,	10 x 17 x 25	13 x 22 x 30	15 x 28 x 38
		Each,	\$1 50	1 75	2 00
		Size, - - - -	D		E
			20 x 30 x 45		30 x 30 x 40
		Each, - - - -	\$2 50		3 00

**Troughs, see Porcelain-ware.**

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

# **Water Apparatus—Wire**



No. 6882.

**Water Sampling Apparatus, Esmarch's.** Consists of suitable glass retort supported in a metal frame so that it may be lowered to any depth. The stopper to the retort is operated by a separate cord.

Telegraphic Code.	Catalogue Number.										Price.
<i>Vemtom</i>	6882	Each,	-	-	-	-	-	-	-	-	\$7 50

**Water Apparatus**, see Centrifuge, pages 50, 51, and Rafter's apparatus, page 61.

**Wax, Bees.** Pure, in cakes.

<i>Vemu</i>	6884	Per 500 grams,	-	-	-	-	-	-	-	-	75
-------------	------	----------------	---	---	---	---	---	---	---	---	----

**Wax, Sealing.** In sticks.

<i>Vemvo</i>	6886	Per 470 grams (4 sticks),	-	-	-	-	-	-	-	-	75
--------------	------	---------------------------	---	---	---	---	---	---	---	---	----

**Wire, Brass.** On 125-gram spools.

<i>Vemwar</i>	10300		A	B	C	D	E	F
		Gauge, B. & S.,	16	18	20	22	24	26
		Per spool,	\$ 15	15	15	20	20	25
			G	H	J	K	L	
		Gauge, B. & S.,	-	28	30	32	34	36
		Per spool,	-	\$ 30	30	35	40	50

**Wire, Copper.** On 125-gram spools.

<i>Vemx</i>	10302		A	B	C	D	E	F
		Gauge, B. & S.,	16	18	20	22	24	26
		Per spool,	\$ 20	20	20	25	25	30
			G	H	J	K	L	
		Gauge, B. & S.,	-	28	30	32	34	36
		Per spool,	-	\$ 35	35	40	50	60

**Wire No. 10300 and 10302** supplied on 250- and 500-gram spools, at same rate per 125 grams; *i. e.*, twice and three times, respectively, the price for 125-gram spools.

**BRANCHES: NEW YORK CITY AND CHICAGO.**

## MICROSCOPIC OBJECTS



IN revising this list and classifying the subjects represented, we have been guided altogether by the demand of past years and only enumerate such preparations as are most generally required by the teacher or student who has not the time to prepare them himself. We have arranged with reliable and, in their line of study, representative workers to prepare these objects for us, and we offer only the very best obtainable. It shall be our endeavor to carry as complete a stock as possible, though we cannot guarantee to have it always complete on account of the impossibility at times of obtaining the proper material for the preparations. It is therefore desirable to include a list of duplicate objects which may be sent as second choice in case those first mentioned are not in stock. When an order is not filled complete it may be taken for granted that the slides omitted are not obtainable. It will give us pleasure to send out a reasonable number of objects for examination and selection to any person, those unknown to us giving good references, with the understanding that the cost of transportation and loss by breakage be borne by the purchaser.

All subjects classified are considered typical slides in their respective series, the cultures being brought to that stage commonly described in the text-books, unless otherwise stated.

Purchasers will find it more convenient to order slides by their catalogue number and serial letters only.

In ordering complete sets use catalogue number alone when writing, or code-word alone in telegraphing. For single slides annex the alphabetical designation opposite title of slide to either catalogue number or code word; *e.g.*, the complete set on Pathological Organs would be No. 6890 or *Venath*, and the slide of Congestion of the Kidney would be No. 6890 kd or *Venathkd*.

## Non-Pathogenic Bacteria

### A Quality

Pure Cultures.

Telegraphic Code, *Ryphn.*

Catalogue Number, 2366.

Each, 60 cents.

Bacillus:		<i>bz</i>	Bacterium zopfi.
<i>ba</i>	acidi lactici.	<i>m</i>	Micrococcus prodigiosus.
<i>bb</i>	butyricus.	<i>o</i>	Oidium lactis.
<i>bc</i>	cyanogenus. (Blue milk.)	<i>ph</i>	Phosphorescing Bacillus.
<i>bf</i>	fluorescens.	<i>pr</i>	Proteus vulgaris.
<i>bi</i>	indicus.	<i>ps</i>	Proteus vulgaris, flagella stained.
<i>bm</i>	megaterium.	<i>sc</i>	Saccharomyces cerevisiæ.
<i>bms</i>	mesentericus vulgatus. (Potato.)	<i>sd</i>	Sarcina aurantiaca, orange sarcine, stained.
<i>bo</i>	oxytocus perniciosus.	<i>se</i>	Sarcina lutea, yellow sarcine, stained.
<i>bra</i>	ramosus.	<i>sp</i>	Spirillum rubrum.
<i>bru</i>	ruber.	<i>yb</i>	Yeast, black.
<i>brk</i>	ruber, Kiel.	<i>yr</i>	Yeast, red.
<i>bs</i>	subtilis. (Hay.)		
<i>bv</i>	violacens of water.		

## Pathogenic Bacteria

### A Quality

Pure Cultures, unless otherwise indicated.

Telegraphic Code, *Ryrb.*

Catalogue Number, 2368.

Each, 60 cents.

<i>a</i>	Achorion schœnleinii. (Favus.)	<i>bb</i>	Bacillus psittacosis. (Parrot disease.)
<i>b</i>	Actinomycosis hominis. (Lumpy Jaw.)	<i>bc</i>	Bacillus rhinoscleroma.
	Bacillus anthracis:	<i>bd</i>	Bacillus septicæmia of mice.
<i>c</i>	Colonies.	<i>be</i>	Bacillus sanarellis of yellow fever.
<i>d</i>	Culture.	<i>bf</i>	Comma bacillus. (Asiatic cholera.)
<i>e</i>	Threads and spores.	<i>bg</i>	Deneke's vibrio.
<i>f</i>	Blood of Guinea-pig. Gram's method.	<i>bh</i>	Eberth's bacillus of typhoid fever.
<i>g</i>	Kidney of Guinea-pig. Section.	<i>bl</i>	Eberth's bacillus, flagella stained.
<i>h</i>	Liver of Guinea-pig. Section.	<i>bm</i>	Finkler-Prior's vibrio.
<i>l</i>	Spleen of Guinea-pig. Section.	<i>bn</i>	Frænkel's pneumococcus.
<i>m</i>	Bacillus cavica.	<i>bo</i>	Friedlaender's pneumobacillus.
<i>o</i>	Bacillus coli communis.	<i>bp</i>	Gonococcus in urethral discharge.
	Bacillus of	<i>br</i>	Loeffler's diphtheria bacillus.
<i>p</i>	Black or bubonic plague.	<i>bs</i>	Micrococcus tetragenus.
<i>r</i>	Chicken cholera.	<i>bt</i>	Monilia candida.
<i>s</i>	Glanders.	<i>bu</i>	Plasmodium malariae. (Febris tertians.)
<i>t</i>	Green pus.	<i>cc</i>	Spirilla and Vibrios. From the mouth.
<i>u</i>	Hog cholera.	<i>cd</i>	Staphylococcus pyogenes:
<i>aa</i>	Hog erysipelas.	<i>ce</i>	albus.
<i>ab</i>	Leprosy, human skin.		aureus.
<i>ac</i>	Malignant œdema.	<i>cf</i>	Streptococcus:
<i>ad</i>	Symptomatic anthrax.	<i>cg</i>	erysipelatis.
	Tuberculosis:		pyogenes.
<i>ae</i>	Aviary.	<i>ch</i>	Streptothrix:
<i>af</i>	Fish.		bovine farcy.
<i>ag</i>	Human lung.	<i>cl</i>	maduræ.
<i>ah</i>	Human lung cavity.	<i>cm</i>	Vibrio metschnikovi.
<i>al</i>	Human sputum.		
<i>am</i>	Pure culture.		

BRANCHES: NEW YORK CITY AND CHICAGO.

## Pathological Organs

### A Quality

Double stained.

Complete Set: Telegraphic Code, *Venath*.

Catalogue Number, 6890.

Complete Set of 38 objects, in cloth-covered box, \$20.50.

Each, 60 cents.

#### Kidney.

- ka* Amyloid.
- kb* Catarrhal, acute.
- kc* Catarrhal, chronic.
- kd* Congestion.
- kf* Fatty degeneration.
- kh* Infarction.
- ki* Infarction, hæmorrhagic.
- ks* Swelling, cloudy.
- kt* Tuberculosis.
- kt* Tuberculosis, acute miliary.
- ku* Tuberculosis (miliary) and hæmorrhagic infarction.

#### Liver.

- la* Atrophy, red (nutmeg).
- lb* Cirrhosis.
- lc* Congestion.
- ld* Degeneration, fatty.
- li* Infiltration, fatty.
- lp* Pigmentation.
- ll* Lesions, typhoid.
- lt* Tuberculosis.
- lu* Tuberculosis, acute miliary.

#### Lung.

- pa* Anthracosis, or coal miners' phthisis.
- pb* Phthisis, fibroid.
- pc* Pleuro-pneumonia. Shows third stage of pluerisy.
- Pneumonia
- pd* First stage, showing congestion and engorgement.
- pe* Second stage, showing red hepatisation.
- pf* Third stage, showing gray hepatisation.
- pg* Fourth stage, showing resolution.
- ph* Catarrhal, acute.
- pl* Catarrhal, chronic.
- pt* Tuberculosis, acute miliary.

#### Spleen.

- sc* Congestion, chronic venous.
- sh* Hodgkin's disease.
- sl* Leucocythemic.
- sp* Pigmentation.
- sp* Tuberculosis.

## Urinalysis

### A Quality

Telegraphic Code, *Ryst*.

Catalogue Number, 2380.

Each, 60 cents.

#### Deposits:

- a* Epithelium.
- b* Leucine.
- c* Lime, carbonate.
- d* Lime, oxalate (dumb bells).
- e* Lime, oxalate (octahedral).
- f* Lime, phosphate.
- g* Murexide.
- h* Nitrate of urea.
- i* Oil globules.
- m* Phosphates, amorphous.
- o* Pus.
- p* Tube casts.

#### Deposits (cont'd):

- r* Triple phosphate.
- s* Tyrosine.
- t* Urate of ammonia.
- u* Urate of soda.
- da* Urates, amorphous.
- db* Urea.
- dc* Uric acid.
- de* Yeast plant from diabetic urine.
- Spermatozoa:
- df* Fish.
- dg* Man.
- dh* Blood.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.



## Urinalysis Set

Arranged for analysis and diagnosis, according to Dr. Louis Heitzman's text-book, "Urinary Analysis and Diagnosis by Microscopical and Chemical Examination," our No. 2816, page 154.

Telegraphic Code, *Rytn*.

Catalogue Number, 2382.

Sold only in complete sets. Per set, \$15.25.

Abscess of kidney.  
Abscess of pelvis of kidney.  
Bacteria found in urine.  
Chyluria.  
Cystitis :  
    Catarrhal.  
    Ulcerative.  
Hæmogloburia.  
Hemorrhage from kidney due to  
    gravel.  
Lithæmia, catarrhal pyelitis.  
Nephritis, interstitial :  
    Acute.  
    Chronic.  
Nephritis, parenchymatous :  
    Acute.  
    Chronic.

Oxalate of lime.  
Papilloma of bladder.  
Phosphate of lime, star shaped.  
Phosphates :  
    Amorphous simple.  
    Triple.  
Prostatitis and Urethritis.  
Urate of ammonia, fully formed.  
Urate of soda.  
Urate of soda, in transition to urate  
    of ammonia.  
Uric acid.  
Vaginitis, catarrhal.

For Microscopic Objects, illustrating Histology, Physiology, etc., see full lists in Catalogue A.

## Apparatus for a Physician's Bacteriological Laboratory

The general practitioner can ill afford to be without bacteriological apparatus for the diagnosis of infectious diseases. The following will permit the carrying on of general work, and at the same time serve to broaden a knowledge of the subject, which will be alike a pleasure and a profit.

Page.	Catalogue Number.	Quantity.	
15	6022	1	Incubator, Physician's.
15	6023		Thermometer, Thermo-regulator, Burner and Asbestos Mat for above.
17	6026	1	Sterilizer, Physician's Hot-air. With thermometer, thermo-regulator, burner and asbestos mat.
18	6030	1	Sterilizer, Physician's Steam. With thermometer and burner.
(Cat. A)	BB8		Microscope with $\frac{3}{4}$ and $\frac{1}{2}$ dry objectives, $\frac{1}{3}$ oil-immersion objective, triple nosepiece and two eyepieces.
29	10296B	1	Water Bath, copper.
31	8004B	1	Agate-ware Boiler; deep; capacity, 2000 cc.
31	8006A	1	Agate-ware Boiler; double; capacity, 1500 cc.
35	6150	1	Animal Holder (Mouse Jar).
40	6190	1	Baskets, Test-tube.
45	8518	2	Brushes, Test-tube.
46	8406	1	Burner, Bunsen.
58	6268	500 grams	Cotton, Absorbent.
58	6270	500 grams	Cotton Wool.
59	1274	one-half oz.	Cover Glass, No. 2, 18 mm., circular.
60	1290	1 gross	Microscopical Object Slides, medium.
69	1458	1	Dissecting Scalpels, all steel, 45 mm. edge.
69	1460	1	Dissecting Scalpels, all steel, 38 mm. edge.
69	1462	1	Dissecting Scalpels, all steel, 32 mm. edge.
72	1556	1	Dissecting Scissors, medium, straight.
74	1584	1	Section Lifter, 20 mm. blade.
81	8750D	100 sheets	Filter Paper, B. & L., white, 11 cm. diam.
81	8764D	100 sheets	Filter Paper, S. & S., No. 575, hard, thin, 32 cm.
			Glassware:
83	8916F	3	Beakers, Griffin's low form with lip.
85	8970F	12	Bottles, flint, glass-stoppered, 150 cc.
89	9150	6	Dishes, Petri, 100 mm.
94	9188D	4	Flasks, Erlenmeyer's, 500 cc.
95	9196D	2	Flasks, Koch's, 500 cc.
95	9214B	1	Funnel, 80 mm. diam., ground top.
99	9326	3	Glass Stirrers, 18 mm. long, 3 mm. diam.
99	9320	500 grams	Glass Tubing, assorted sizes.
110	9554	6	Watch Glasses, beveled surface, plain, not ground.
106	9460F	100	Test-tubes, 150 x 15 mm.
113	9644F	2	Burettes, Mohr's, 100 cc. in one-fifths.
114	9660J	1	Cylinder, graduated, 250 cc.
115	9690F	1	Graduate, conical, 500 cc.
116	9754F	1	Pipette, Mohr's, 10 cc., in one-tenths.
122	1770	1 Bk.	Labels, slide, square.
126	6622	1	Needle inoculating, platinum.
136	10114	12	Rubber Caps for 15 mm. tubes.
137	10130D	120 cm.	Rubber Tubing, gas.
141	10222	1	Support, Burette, for two burettes.
144	10282	1	Tripod, Iron (for No. 10296B Water Bath).

For Microscopical Supplies see Catalogue A.

For Chemicals, Nutrient Substances, and Staining Material see Catalogue G.

For other Chemical Apparatus, see Catalogue F.

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Equipment for Small-sized Board-of-Health Laboratory

The following articles comprise a standard outfit for routine work, such as is carried on in a small Board-of-Health laboratory in investigations for the presence of the bacilli of diphtheria and tuberculosis.

Page.	Catalogue Number.	Quantity.	
13	6008	1	Incubator; capacity, eight test-tube baskets. With burner, thermometer, and thermo-regulator.
16	6025	1	Hot-air Sterilizer. With burner, thermometer, and asbestos mat.
19	6034c	1	Steam Sterilizer, Arnold.
30	6086	1	Serum Solidifying Apparatus. With burner, thermometer, thermo-regulator, and asbestos mat.
(Cat. A)	BB (Sp.)	1	Microscope with $\frac{1}{2}$ oil-immersion objective, and 1-inch eyepiece.
31	8004D	1	Agate-ware Boiler; deep; capacity, 5000 cc.
31	8006A	1	Agate-ware Boiler; double; capacity, 1500 cc.
35	6150	1	Animal Holder ( Mouse Jar ).
36	8132	1	Balance, Micro-chemical.
39	8245	1	Balance Weights, Kohlbusch's. 50 to 0.1 grams.
40	6190	8	Baskets, Test-tube.
45	8518	3	Brushes, Test-tube.
46	8406	1	Burner, Bunsen.
47	8426	1	Burner, Concentric Radial. For Steam Sterilizer.
58	6268	500 grams	Cotton, Absorbent.
58	6270	500 grams	Cotton Wool.
59	1274	1 oz.	Cover Glass, No. 2, 18 mm., circular.
60	1290	2 gross	Microscopical Object Slides, medium.
65	1394	1	Forceps, coarse.
65	1380	2	Forceps, fine.
67	1426	1	Forceps, Cover Glass, Stewart's.
81	8750D	500 sheets	Filter Paper, B. & L., white, 11 cm. diam.
81	8764D	1000 sheets	Filter Paper, S. & S., No. 575, hard, thin, 32 cm. diam.
			Glassware:
83	8916F	3	Beakers, Griffin's low form with lip, 150 cc.
83	8916K	3	Beakers, Griffin's low form with lip, 550 cc.
85	8978G	1	Bottle, Green. 8 litres. For mercury bichloride solution.
86	9024	6	Bottles, Barnes' Dropping, 30 cc.
87	9050C	1	Bottle, Washing, rubber stopper, 500 cc.
89	9150	12	Dishes, Petri, 100 mm.
95	9196D	6	Flasks, Koch, 500 cc.
95	9214A	1	Funnel, plain, 50 mm. diam., ground top.
95	9214E	1	Funnel, plain, 150 mm. diam., ground top.
99	9326	3	Glass Stirrers, 18 mm. long, 3 mm. diam.
100	9342E	1	Jar, 300 x 175 mm.
103	9370F	1	Mortar, 150 mm.
103	9380	6	Pipettes, rubber bulb.
104	1714	1	Staining Dish, Moore's.
106	9462B	2 gross	Test-tubes, 10 x 1.5 cm.
114	9660D	1	Cylinder, graduated, 50 cc.
114	9660K	1	Cylinder, graduated, 500 cc.
116	9754J	1	Pipette, Mohr's, 100 cc. in one-fifths.
126	6622	2	Inoculators, platinum.

(Continued on page 152.)

BRANCHES: NEW YORK CITY AND CHICAGO.

## Equipment, Board-of-Health

Page.	Catalogue Number.	Quantity.	
122	1770	1 Bk.	Labels, Slide, square.
(Cat. A)	1995	12	Mailing Cases, Slide.
137	10130D	120 cm.	Rubber Tubing, gas.
140	10184C	1	Stone Jar, 24 litres (for waste).
140	10184A	1	Stone Jar, 2 litres (for bichloride solution).
141	10216	1	Support, Apparatus, rectangular base, 3 rings.
142	10240	1	Support, Test-tube, 23 tubes.

### **CHEMICALS**

For full list, see Catalogue G.

100 cc.	Acid, Nitric, 10 per cent. solution.
20 cc.	Balsam, Canada, paper filtered, in tube.
500 grams	Mercury Bichloride, recrystallized.
500 grams	Sodium Chloride, c. p.
500 grams	Sugar, Grape.
1 vial	Test Paper, Litmus red.
1 vial	Test Paper, Litmus blue.

### **NUTRIENT SUBSTANCES**

125 grams Peptone, Witte's.

See also Catalogue G.

### **STAINING MATERIAL**

60 cc.	Carbol-Fuchsin.
60 cc.	Methylen Blue.

See, also, Catalogue G.

### **MICROSCOPICAL SUPPLIES**

See Catalogue A.

# TEXT AND REFERENCE BOOKS

## BOUND IN CLOTH

For full list of Books on Microscopical Technique, Biology, Histology, etc., see Catalogue A.

### BACTERIOLOGY

Telegraphic Code.	Catalogue Number.		Price, <i>Net</i> . Postpaid.
<i>Viab</i>	6900	ABBOTT, A. C. The Principles of Bacteriology. A practical manual for students and physicians - - -	\$2 75
<i>Vibak</i>	6902	BAKER, M. N. Potable Water and Methods of Detecting Impurities - - -	50
<i>Vicot</i>	6904	COATES, W. E. Text-book of Bacteriology and Hygiene - - -	1 50
<i>Vidun</i>	6906	COOKE, M. C. Rust, Smut, Mildew, and Mould. An introduction to the study of microscopic fungi - - -	2 40
<i>Viert</i>	6908	CROOKSHANK, E. M. Text-book of Bacteriology - - -	6 50
<i>Vifol</i>	6910	CROOKSHANK, E. M. Photography of Bacteria - - -	6 50
<i>Vigen</i>	6912	EISENBERG, J. Bacteriological Diagnosis - - -	1 00
<i>Vihah</i>	6914	FRANKLAND, P. Micro-organisms in Water. Their significance, identification, and removal - - -	5 00
<i>Viker</i>	6916	FREUDERICH, E. VON. Dairy Bacteriology - - -	1 00
<i>Viles</i>	6918	HANSEN, E. C. Practical Studies in Fermentation - - -	5 00
<i>Vimup</i>	6920	HUEPPE, F. Principles of Bacteriology - - -	1 75
<i>Vinef</i>	6922	HUEPPE, F. The Methods of Bacteriological Investigation - - -	2 50
<i>Vior</i>	6924	JORGENSEN, A. Micro-organisms and Fermentation - - -	3 25
<i>Vipac</i>	6926	KANTHACK-DRYSDALE. Elementary Practical Bacteriology - - -	1 10
<i>Vigur</i>	6928	KLEIN, E. Bacteria in Asiatic Cholera - - -	1 25
<i>Vireg</i>	6930	KLEIN, E. Micro-organisms and Disease - - -	1 50
<i>Vison</i>	6932	MASON, W. P. Examination of Water. Chemical and bacteriological - - -	1 25
<i>Vitad</i>	6934	McFARLAND, J. Text-book upon the Pathogenic Bacteria - - -	2 50
<i>Viula</i>	6936	MIGULA, W. An Introduction to Practical Bacteriology - - -	1 60
<i>Voam</i>	6938	MOORE, V. A. Laboratory Directions for Beginners in Bacteriology - - -	1 00
<i>VoREW</i>	6940	NEWMAN, G. Bacteria: especially as they are related to the economy of nature, to industrial processes, and to the public health - - -	2 00
<i>Vocav</i>	6942	NOVY, F. G. Laboratory Work in Bacteriology - - -	3 00
<i>Vodar</i>	6944	PARK, W. H. Bacteriology in Medicine and Surgery - - -	3 00
<i>Voed</i>	6946	PRUDDEN, T. M. Drinking Water and Ice Supplies and their Relation to Health and Disease - - -	75
<i>Vofru</i>	6948	PRUDDEN, T. M. Story of the Bacteria - - -	75
<i>Vogho</i>	6950	PRUDDEN, T. M. Dust and its Dangers - - -	75
<i>Vohla</i>	6952	SALOMONSEN, C. J. Bacteriological Technology for Physicians - - -	1 25
<i>Voke</i>	6954	SCHENK, S. L. Manual of Bacteriology for Practitioners - - -	3 00
<i>Volat</i>	6956	SLATER-SPITTA. Atlas of Bacteriology - - -	2 50
<i>Vomer</i>	6958	STERNBERG, G. M. Text-book of Bacteriology - - -	4 50
<i>Vonan</i>	6960	TROUESSART, E. L. Microbes, Ferments, and Moulds - - -	1 50
<i>Vopal</i>	6962	TYNDALL, J. Floating Matter of the Air, in Relation to Purification and Infection - - -	1 50
<i>Voqu</i>	6964	VAUGHAN-NOVY. Ptomaines, Leucomains, Toxins and Antitoxins. The chemical factors in the causation of disease - - -	3 00
<i>Vorip</i>	6966	WHIPPLE, G. C. The Microscopy of Drinking Water. A guide to the analyst and engineer - - -	3 50
<i>Vosam</i>	6968	WILLIAMS, H. U. Manual of Bacteriology - - -	1 50
<i>Voteh</i>	6970	WOODHEAD, G. S. Bacteria and their Products - - -	1 50

BRANCHES: NEW YORK CITY AND CHICAGO.

## Books

### PATHOLOGY

Telegraphic Code.	Catalogue Number.		Price, Net, Postpaid.
<i>Sahdab</i>	2840	CABOT, R. C. A Guide to the Clinical Examination of the Blood for Diagnostic Purposes - - - - -	\$3 25
<i>Sahjak</i>	2844	JAKSCH, R. VON. Text-Book of Clinical Diagnosis. The microscopical, bacteriological and chemical evidences of disease -	6 50
<i>Sahgis</i>	2846	SIMON, C. E. A Manual of Clinical Diagnosis by Microscopical and Chemical Methods. For students, hospital physicians and practitioners - - - - -	3 50
<i>Sahho</i>	2848	STENGEL, A. Manual of Pathology - - - - -	4 00
<i>Sahloy</i>	2850	MALLORY & WRIGHT. Pathological Technique. A practical manual for laboratory work - - - - -	2 50

### URINALYSIS

<i>Safmed</i>	2810	DEEMS, F. M. Hand-book of Microscopical and Chemical Urinary Analysis. Systematic examination of urine, urinary deposits and calculi - - - - -	1 00
<i>Safnis</i>	2812	FISH, P. A. Practical Exercises in Comparative Physiology and Urine Analysis. Paper - - - - -	75
<i>Safot</i>	2814	FLINT, A. Manual of Chemical Examinations of the Urine in Disease. Brief directions for the examination of the most common varieties of urinary calculi - - - - -	1 00
<i>Safre</i>	2816	*HEITZMANN, L. Urinary Analysis and Diagnosis by Microscopical and Chemical Examination - - - - -	2 00
<i>Safroh</i>	2818	HOFFMAN & ULTZMAN. Analysis of the Urine - - - - -	2 00
<i>Safsag</i>	2820	LEGG, J. W. Practical Guide to the Examination of Urine -	95
<i>Saftdy</i>	2822	PURDY, C. W. Practical Urinalysis and Urinary Diagnosis. A manual for physicians, surgeons and students - - - - -	2 50
<i>Safysn</i>	2824	TYSON, J. Guide to the Examination of Urine - - - - -	1 25

\*Describes microscopic objects of our "Urinary Diagnosis Series."

### MILK TESTING

<i>Voul</i>	6980	FARRINGTON-WOLL. Testing Milk and its Products - - - - -	1 00
<i>Vowte</i>	6982	GROTEFELT-WOLL. The Principles of Modern Dairy Practice (from a bacteriological point of view) - - - - -	2 00
<i>Voxy</i>	6984	WING, H. H. Milk and its Products - - - - -	1 00

### MICROSCOPY AND MICRO-TECHNIQUE

For other Books, see Catalogue A.

<i>Saab</i>	2600	BAUSCH, EDWARD. Manipulation of the Microscope. 200 pp., third (15,000) edition - - - - -	1 00
<i>Saadd</i>	2604	CARPENTER & DALLINGER. The Microscope and its Revelations	6 00
<i>Saafte</i>	2606	DAVIES, T. The Preparation and Mounting of Microscopic Objects - - - - -	1 00
<i>Saagel</i>	2608	GAGE, S. H. The Microscope. An introduction to microscopic methods and to histology - - - - -	1 50
<i>Voyle</i>	6988	LEE, A. B. The Microtometist's Vade Mecum - - - - -	4 00
<i>Saavv</i>	2626	JOURNAL OF APPLIED MICROSCOPY. Vol. 1 - - - - -	1 60
<i>Saax</i>	2628	JOURNAL OF APPLIED MICROSCOPY. Vol. 2 - - - - -	2 20
		JOURNAL OF APPLIED MICROSCOPY. Subscription, \$1.00 per year; foreign, \$1.25; single copies, 10 cents.	

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Weights and Measures, with Equivalents

### METRIC

<b>Meter</b> (unit of length):	Millimeter (mm.) = $\frac{1}{1000}$ meter.	
	Centimeter (cm.) = $\frac{1}{100}$ meter.	
	Kilometer = 1000 meters.	
	Micron ( $\mu$ ) = $\frac{1}{1000000}$ millimeter.	
<b>Gram</b> (unit of weight):	Milligram (mg.) = $\frac{1}{1000}$ gram.	
	Kilogram (kilo.) = 1000 grams.	
<b>Liter</b> (unit of capacity):	Cubic Centimeter = $\frac{1}{1000}$ liter.	Same measure as milliliter (ml.)

1 Millimeter = { 0.03937 (or $\frac{1}{25}$ approx.) inch. 1000 microns.	1 Gram = { 15.43 grains. 0.563 dram 0.035 ounce } Avoir.
1 Centimeter = { 0.3937 (or $\frac{2}{5}$ approx.) inch. 0.0328 feet.	1 Kilogram = { 35.27 ounce (Avoir.) 2.2 pound (Avoir.)
1 Meter = { 39.37 inches. 3.28 feet.	1 Liter = { 1.056 (or 1 approx.) quart. 61.02 cu. inches. 1000 cu. centimeters.
1 Micron = { $\frac{1}{250000}$ inch. 0.001 millimeter.	

1 Sq. Millimeter = 0.00155 }	1 Cu. Millimeter = 0.00006 }
1 Sq. Centimeter = 0.1550 } sq. inches.	1 Cu. Centimeter = 0.0610 }
1 Sq. Meter = 1550 }	1 Cu. Centimeter = 0.001 liter.
1 Sq. Meter = 10.76 sq. feet.	1 Cu. Meter = { 35.32 cu. feet. 61025.4 cu. inches.

1 Inch = 25.399 millimeters.	1 Foot = 30.48 centimeters.
1 Sq. Inch = 6.451 sq. centimeter.	1 Sq. Foot = 0.093 sq. meter.
1 Cu. Inch = 16.387 cu. centimeters.	1 Cu. Foot = 0.028 cu. meter.

### AVOIRDUPOIS WEIGHT

1 Ounce = { 437.5 grains. 16 drams.	1 Grain = 0.065 (or $\frac{3}{50}$ approx.) }
1 Pound = 16 ounces.	1 Dram = 1.77 (or $1\frac{3}{4}$ approx.) }
	1 Ounce = 28.35 (or 30 approx.) }
	1 Pound = 453.59 (or 500 approx.) }
	1 Pound = 27.7 cu. inches.
	1 Pound = 1.215 lb. Troy.

### APOTHECARIES' MEASURE

1 Dram = 60 minims.	1 Dram = 3.70 }
1 Ounce = 16 drams.	1 Ounce = 29.57 }
1 Pint = 16 ounces.	1 Pint = 473.1 }
1 Gallon = 8 pints.	1 Gallon = 3785.4 }
	1 Gallon = 231 cu. inches.

### APOTHECARIES' WEIGHT

1 Scruple = 20 grains.	1 Grain = 0.065 }
1 Dram = 3 scruples = 60 grains.	1 Dram = 3.887 }
1 Ounce = 8 drams = 480 grains.	1 Ounce = 31.10 }
1 Pound = 12 ounces.	1 Pound = 373.2 }

### FORMULÆ, ETC.

Temperature:	Centigrade degree = 0.555 (Fahr.—32°); 95° F. = 0.555 (95—32) = 34.97° C.
	Fahrenheit degree = 1.8 × Cent. + 32°; 80° C. = 1.8 × 80 + 32 = 176° F.
	Centigrade degree = 1.25 × Reaumur. Reaumur = 0.8 × Centigrade.
Area of Circle = $\pi r^2$ , where r = radius.	$\pi = 3.1416$ .
Circumference of Circle = $2\pi r$ .	Diameter = $\frac{\text{circumference}}{2\pi}$
Area of Cylinder = $2\pi rh$ ; where r = radius of cross section, and h = height or length.	
Volume of Cylinder = $\pi r^2 h$ .	
Temperature Saturated Steam:	{ 5 lbs. gauge pressure = 103° C.; 10 lbs. = 115° C.; 15 lbs. = 121° C.; 20 lbs. = 126° C.; 25 lbs. = 130° C.
Platinum Weights:	1 cu. cm. weighs 21.50 grams; 1 cu. in. weighs 352.3 grams.
(approx.)	1 cm. wire, No. 12 B. & S. gauge, weighs 0.698 grams; No. 24, 0.043 grams.
	1 sq. cm. of foil, 0.001 mm. thick, weighs 0.055 grams.

BRANCHES: NEW YORK CITY AND CHICAGO.

FOR OTHER  
BACTERIO-CHEMICAL APPARATUS

SEE CATALOGUE F

AND FOR A FULL LINE OF

CHEMICALS  
REAGENTS

DRY STAINING MATERIAL  
STAINS IN SOLUTION  
STAINS FOR INJECTION  
MEDIA FOR MOUNTING  
MEDIA FOR FINISHING  
& IMBEDDING SUBSTANCES

SEE CATALOGUE G

MICROSCOPES AND ACCESSORIES

SEE CATALOGUE A

MICROTOMES AND ACCESSORIES

SEE CATALOGUE B



# INDEX

## A

Absorbent cotton, 58  
 Acid brushes, 45  
     Pipette, Greiner's, 125  
 Aerobiscopes, 32, 33  
 Aerometers, 116  
 Agar agar, 127  
 Agate-ware, 31, 32  
 Air baths, 15-17, 20, 9  
     Pumps, 82  
     Testing apparatus, 32, 33  
 Albuminometer, 119  
 Alcohol burners, 46  
     Stills, 139, 140  
 Alkalimeter, 111  
 Allihn's gas flask, 98  
 Anaerobic culture apparatus, 33, 34  
 Analytical balances, 36-39  
     Weights, 39, 40  
 Anatomical blow-pipe, 61  
     Dissecting instruments, 64-78  
     Dissecting sets, 75-78  
     Jars, 100-102  
 Animal holders, 34, 35  
 Antitoxin flasks, 93  
 Apparatus clamps, 54-56  
     Sets of dissecting, 75-78  
     Physician's laboratory, 150  
     Stands, 141, 142  
 Aquarium jars, 100  
 Arnold steam sterilizers, 19-21, 9  
 Artery forceps, 64  
 Asbestos, filtering, 80  
 Aseptic razors, 132  
 Aspirating bottles, 111  
 Aspirators, 82  
 Attachment, funnel, 97  
 Atwood's rubber cells, 49  
 Autoclav, 23, 9  
 Automatic pipette, milk, 125  
     Zero burette, 112  
 Autopsic mice holder, 35  
 Azometer, 116

## B

Babcock's milk tester, 125  
 Bacterial counting apparatus, 60, 61  
     Filters, 79, 80  
     Micro slides, 147  
 Bags, filtering, 80  
 Balance weights, 39, 40  
 Balances, 36-39  
 Balsam bottles, 85  
 Bands, Novy's jar, 34  
     Rubber, 136  
 Bank's drying tubes, 108  
 Barnes' pipette bottles, 86  
 Basket, test tube, 40  
 Baths, paraffine, 24-28  
     Water, 24-30  
 Battery jars, 100  
 Baume's hydrometers, 116

Beaker clamps, 55  
 Beakers, glass, 83  
 Beef extract, 127  
 Beeswax, 145  
 Bell glasses, 83, 84  
     Jars, 83, 84  
 Benches, glass, 98  
 Berkefeld filters, 79, 80  
 Billings' culture flask, 92  
 Biological dissecting sets, 75-78  
 Blast burners, 40  
 Blood apparatus, 41-44, 50, 51, 67  
     Centrifuge, 50, 51  
     Lancet, 52  
     Mixing pipettes, 41, 42  
     Serum ovens, 30  
     Set, Migge's, 44  
     Table, Huber's, 44  
 Blood analysis, see special booklet  
 Blowers, 40  
     Nets for, 40  
     Rubber discs for, 40  
 Blow-pipe, anatomical, 64  
 Board-of-health sterilizers, 21  
     Laboratory equipment, 150  
     Test-tubes, 106  
 Boilers, agate-ware, 31  
     Double, 31  
 Bone forceps, 64  
     Saw, 72  
 Books, 153, 154  
 Borer sharpener, cork, 58  
 Borers, cork, 57  
     Soil, 138  
 Bottles, 84-87  
     Aspirating, 111  
     Gas, 98  
     Graduated, 111, 112  
     Milk tester, 125  
 Bougies, Berkefeld, 80  
 Box, culture-plate sterilizing, 62  
     Glass, 99  
     Pipette sterilizing, 127  
 Brain knife, 67  
 Brass gauze, 82  
     Stop-cocks, 140  
     Weights, 39, 40  
     Wire, 145  
 Bread culture flasks, 93  
 Brushes, 44, 45 (64)  
     Bulbs, rubber, 136  
 Bunsen's blast burner, 40  
     Burners, 46, 47  
     Clamp, 55  
     Filter flask, 92  
     Support, 141  
 Bureau of Animal Industry compressor, 50  
 Burette, filtering attachment, 113  
     Brushes, 45  
     Clamps, 55  
     Floats, 114  
     Pinch-cocks, 114  
     Supports, 141, 142  
 Burettes, 112, 113

# Index

## B (Continued)

Burner wicking, 46  
Burners, 46-48  
    Blast, 40  
    Lillie water bath, 26

## C

Cabinets, slide, see Catalogue A  
Cage, Vaughan's, 34  
Caldwell's lactobutyrometer, 124  
Camel's hair brushes, 44 (64)  
Camera lucidas, see Catalogue A  
Canada balsam bottles, 85  
Caoutchouc caps, 136  
Capillary pipettes, hæmacytometer, 41, 42  
Caps, rubber, 136  
Carbon filter tubes, 109  
Carrying cases, centrifuge, 52  
Cartilage knives, 70  
    Shears, 74  
Case, centrifuge, 52  
    Reagent, 49  
    Staining, 49  
Casseroles, agate-ware, 31  
Cells, mounting, 49  
Centrifuge and accessories, 50-53  
Chains and hooks, dissecting, 67  
Chamberland's filters, 91  
    Flasks, 93  
    Tubes, 108  
Chambers, moist, 102, 103  
Chamois skin, 53  
Chapman's aspirator or pump, 82  
Charts, counting, 61  
Chemical balances, 36-39  
    Thermometers, 117  
Chevalier's creamometer, 124  
Chopper, meat, 54  
Circular cover glass, 59  
Clamp holders, 54  
Clamps, apparatus, 54-56  
    Centrifuge, 53  
    Novy's jar, 34  
Clay filter, 78, 79  
Cleaners, test tube, 45  
Cleaning brushes, 45  
Cloth-covered tubing, 137  
    Shears, 74  
Coagulating apparatus, 30  
Coddington lenses, 122  
Collecting vials, 109  
Colony counters, 60, 61  
Compressors, cover glass, 60  
    Organism, 56  
Concentric radial burner, 47  
Cone, measuring, 123  
Conical glasses, 121  
    Graduates, 115  
Connecting tubes, 107, 108  
Cooking pots, 31  
Cooler, Koch's ice, 127  
Coplin's staining jar, 105  
Copper gauze, 82  
    Water baths, 24-29  
    Wire, 145  
Cork knife, 68  
    Supplies, 57, 58

Cornet's cover-glass forceps, 66  
Cotton, absorbent, 58  
    Wool, 58  
Counting apparatus, blood-cell, 41-43  
    Apparatus, bacterial, 60, 61  
    Apparatus, Rafter's, 61  
    Chamber, hæmacytometer, 42  
    Flasks, Miquel's, 94  
Cover glass, 58, 59  
    Hæmacytometer, 42  
    Forceps, 66, 67  
Cover plates, glass, 99  
Covers, bell glass, 83, 84  
Cream bottles, Babcock's, 125  
Creamometers, 124  
Crucibles, platinum, 128  
    Porcelain, 129  
Crystallization dishes, 89  
Culture apparatus, anærobic, 33, 33  
    Chambers, 89  
    Dishes, 89  
    Flasks, 92-94  
    Jars, anærobic, 33, 34  
    Media, 127 (also Catalogue G)  
    Plate box, 62  
    Plates, 99  
    Slides, 62  
    Tubes, 108  
Cups, swimming, 132  
Cutters, glass, 121  
    Potato, 62  
Cutting pliers, 129  
Cylinders, graduated, 114  
    Hydrometer, 116  
    Reagent, 88  
    Urine, 121  
Cylindrical jars, 100

## D

Dairy thermometer, 107  
Daland's hæmatokrit, 51  
Damp chambers, 102, 103  
Deflagration spoon, 62  
Dehydrating apparatus, 63  
Dessicators, 88  
Dialysers, 88  
Diamond glass cutter, 121  
    Glass marker, 121  
Digestors, 23, 9  
Diphtheria flasks, 93  
Dishes, glass, 89, 90  
    Porcelain, 130  
    Staining, 104  
Displacement apparatus, 103  
Dissecting apparatus, 64-78  
Distilling apparatus, 139, 140  
Doremus' urea apparatus, 120  
Drawing apparatus, see Catalogue A  
Drechsel's wash flasks, 98  
Drop culture slide, 62  
Droppers, 103, 104  
Dropping bottles, 86, 87  
Drug mills, 126  
Dry-heat sterilizers, 15-17, 20, 9  
Drying ovens, 15-17, 20, 29, 30, 9  
    Racks, 141, 142  
    Tubes, 108, 109  
Dunham's Thermo-regulator, 133

BAUSCH & LOMB OPTICAL CO., ROCHESTER,

## Index

### E

Earth thermometer, 117  
Ehrlich's cover-glass forceps, 67  
Einhorn's saccharometer, 119  
Electric thermo-regulator, 135  
Embedding cylinder, cover glass, 88  
    Substances, see Catalogue G  
Embryological watch glasses, 110  
Enameled-ware, 81, 32  
Equipment for Laboratories, 150-152  
Erdmann's alkalimeter, 111  
Erlenmeyer's flasks, plain, 94  
    Culture flasks, 93  
    Filter flasks, 92  
Esbach's albuminometer, 119  
Esmarch's counting apparatus, 60, 61  
    Water sampling apparatus, 145  
Evaporating dishes, glass, 89  
    Dishes, porcelain, 130

### F

Farina kettle, 31  
Fat-extracted paper, 125  
Felt bags, filtering, 80  
Fermentation tubes, 119  
Fernbach's culture flask, 93  
Feser's lactoscope, 125  
File handles, 58 (79)  
Files, 79  
    Cork, 58  
Filling attachment, test tube, 107  
    Burette, 113  
Filter bougies, Berkefeld, 80  
    Flasks, 92  
    Materials, 80  
    Paper, 81  
    Pumps, 82  
    Racks, 82  
    Rings, porcelain, 130  
    Supports, 142  
    Tubes, 92, 109, 130  
Filters, 79, 80, 91  
Fingers, rubber, 136  
Flasks, plain, 92, 95  
    Culture, 92-94  
    Filter, 92  
    Graduated, 115  
    Miquel's air-analysis, 33  
    Miquel's culture, 94  
Flat-nose pliers, 129  
Fleischl's hæmometers, 43  
Flint bottles, 84, 85  
Floats, burette, 114  
Fluted funnels, 96  
Foil, platinum, 128  
    Tin, 144  
Forceps, cover-glass, 66  
    Dissecting, 64, 65  
    Staining, 66, 67  
Frankel's soil borer, 138  
Fresenius' dessicators, 88  
    Filter tubes, 92  
Freudenreich's culture flask, 94  
Funnel attachment, 97  
    Tubes, 97, 98  
    Supports, 142

Funnels, agate-ware, 32  
    Glass, 95, 96  
    Koch's hot water, 80  
    Porcelain, 131

### G

Gas bottles, 98  
    Burners, 46-48  
    Generators, 98  
    Pressure regulators, 132  
    Regulators, 133-135  
    Stop-cocks, 140  
    Tubing, 137  
    Wash flasks, 98  
Gauze, wire, 82  
Gay-Lussac's burettes, 112  
    Specific gravity bottles, 111  
Geissler's alkalimeter, 111  
    Burettes, 113  
    Filter pump, 82  
    Stop-cocks, 105  
Gelatine, nutrient, 127  
German watch glasses, 110  
Glassware, plain, 83-110  
    Graduated, 111-118  
    Milk, 124-125  
    Urinary, 119-121  
Glass benches, 98  
    Boxes, 99  
    Brushes, 45  
    Cutters, 121  
    Plates, 99  
    Powder, 80  
    Rod, 99  
    Stirrers, 99  
    Stop-cocks, 105  
    Trays, 107  
    Tubing, 99  
    Ware, 83-121  
    Wool, 80  
Gloves, rubber, 136  
Gower's hæmacytometers, 41-43  
    Hæmoglobinometers, 42, 43  
Graduated glass-ware, 111-118  
    Milk apparatus, 124, 125  
    Urinary glassware, 119-121  
Graduates, 114, 115  
Gram weights, 39, 40  
Green bottles, 85  
Greiner's milk pipette, 125  
Griffin's beakers, 83  
Grinding mills, 126  
Guard, hæmatokrit, 52  
Guinea-pig holder, 35  
Gummed labels, 122

### H

Hæmacytometers, 41-43  
Hæmatokrit, 51  
Hæmoglobinometers, 42, 43  
Hæmometers, 43  
Hammerschlag's method, apparatus for, 43  
Hand brushes, 45  
    Magnifiers, 122, 123  
Hart's drying tubes, 108  
Harvard trip balance, 36  
Heat regulators, 133-135

## Index

### H (Continued)

Heaters, Lillie's bath, 26  
 Water, 48  
 Heeren's pioscope, 125  
 Heese's air-testing apparatus, 32  
 Hind's urea apparatus, 120  
 Hoffman's clamps, 55  
 Holders, animal, 34, 35  
 Petri dish, 122  
 Test tube, 122  
 Homœopathic vials, 109  
 Hooks and chains, 67  
 Horn spatulas, 75  
 Hot-air ovens, 15-17, 20, 20, 9  
 Sterilizers, 15-17, 20, 9  
 Hot-water filters, 80  
 House filters, 79, 80  
 Huber's blood table, 44  
 Huefner's ureometer, 121  
 Hydrometer jars, 116  
 Hydrometers, 116  
 Hypodermic needles, 143, 144  
 Syringes, 143, 144

### I

Ice cooler, Koch's, 127  
 Incubators, 8-14  
 Regulators, 135  
 Thermometers, 118  
 Injecting syringes, 143  
 Inoculating needles, 126  
 Water baths, 28, 29  
 Inspector's outfits, milk, 126  
 Instruments, dissecting, 64-78  
 Sterilizers, 20, 21  
 Iron box, plate sterilizing, 62  
 Box, pipette sterilizing, 127  
 Gauge, 82  
 Triangles, 144  
 Tripod, 144  
 Weights, 40

### J K

Japanese lens paper, 126  
 Jars, 100-102  
 Anærobic culture, 33, 34  
 Hydrometer, 116  
 Mouse, 35  
 Novy's, 33, 34  
 Staining, 105  
 Stone, 140  
 Jeffer's counting plate, 61  
 Jewell Stills, 140  
 Kerosene burner, 48  
 Kipp's gas generator, 98  
 Kitasato's filters, 91  
 Mice holders, 35  
 Kleb's moist chamber, 103  
 Knives, brain, 67  
 Cartilage, 70  
 Dissecting, 68  
 Potato, 122  
 Prosecting, 70  
 Koch's blood oven, 30  
 Burners, 48

Koch's culture flasks, 93  
 Flasks, 95  
 Hot-water funnel, 80  
 Ice cooler, 127  
 Incubators, 14, 9  
 Serum sterilizer, 30  
 Steam sterilizer, 18, 9  
 Syringes, 143, 144  
 Kohlbusch's balances, 36, 38  
 Weights, 39, 40

### L

Labels, gummed, 122  
 Lactobutyrometers, 124  
 Lactodensimeter, 124  
 Lactometers, 115 (124)  
 Lactoscope, 125  
 Lamps, alcohol, 46  
 Lancet, blood, 52  
 Latapie's animal holder, 35  
 Lens paper, 126  
 Level, spirit, 138  
 Leveling apparatus, 127  
 Liebig's beef extract, 127  
 Lifters, section, 73, 74  
 Lillie water bath, 25, 26  
 Linen measuring tape, 123  
 Lister's flask, 94  
 Liter flasks, 115  
 Lunge's nitrometer, 116

### M

Mabon's water bath, 28  
 Magnifiers, 122, 123  
 Marchand's drying tubes, 109  
 Lactobutyrometer, 124  
 Milk inspector's outfit, 126  
 Marking diamond, 121  
 Pencils for glass, 121  
 Maximum and minimum thermometer, 118  
 Measured cover glass, 59  
 Measures, cone, 123  
 Glass, 114, 115  
 Tape, 123  
 Meat choppers, 54  
 Presses, 132  
 Media, culture, 127 (also Catalogue G)  
 Mounting, see Catalogue G  
 Meissen crucibles, 129  
 Metal baskets, 40  
 Metric measuring tape, 123  
 Weights, 39, 40  
 Meyer' funnels, 96  
 Mice holders, 35  
 Micro-Bunsen burners, 47  
 Chemical balance, 36  
 Micro-organism counters, 60, 61  
 Microscopes, simple, 122, 123  
 See Catalogue A  
 Microscopic objects, 146-149  
 Microscopical covers, 58, 59  
 Object slides, 58, 60  
 Labels, 122  
 Microtomes, see catalogue B  
 Miescher's hæmoglobinometer, 43  
 Hæmometer, 43

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Index

### M (Continued)

Miescher's mixing pipette, 42  
 Migge's blood set, 44  
 Milk centrifuges, 50-52  
   Hydrometers, 116  
   Inspector's outfits, 126  
   Pipettes, 53, 125  
   Testing apparatus, 50-53, 124-126  
   Tubes, centrifuge, 53  
 Miller's water bath, 26, 27  
 Milligram weights, 39  
 Mills, grinding, 126  
 Mincers, meat, 54  
 Minimum and maximum thermometer, 118  
 Miquel's anærobic flask, 33  
   Culture flask, 94  
 Mixing cylinders, 114  
   Pipette, blood, 41, 42  
 Mohr's burettes, 113  
   Clamps, 55  
   Pinch-cocks, 55  
   Pipettes, 116  
   Specific gravity balance, 38  
 Moist chambers, 102, 103  
 Moore's staining dish, 104  
 Mortars, glass, 103  
   Porcelain, 131  
 Mould culture-slide, 62  
 Mounting cells, 49  
   Dishes, 130  
   Media, see catalogue G  
 Mouse holders, 34, 35  
   Jars, 35  
   Tongs, 144  
 Muencke's filter pump, 82  
   Thermo-regulator, 133  
 Munktell's filter paper, 81  
 Murrill's pressure regulator, 133  
 Museum jars, 102

### N O

Naples' staining jar, 105  
   Water baths, 27  
 Needle holders, 71  
 Needles, dissecting, 70, 71  
   Inoculating, 126  
   Platinum, 126  
   Syringe, 143, 144  
   Teasing, 70, 71  
 Nickel-steel ware, 31, 32  
 Nitrometer, 116  
 Nivelating apparatus, 127  
 Nordtmeyer filters, 79, 80  
 Novy's cover glass forceps, 67  
   Culture apparatus, 33, 34  
   Filter, 91  
   Thermo-regulator, 134  
 Object slides, 58, 60  
 Oil burner, Lillie's bath, 26  
   Burner, vaporized, 48  
   Stones, 69  
 Operating pans, 71  
 Outfits, Board-of-Health laboratory, 151, 152  
   Dissecting, 75-78  
   Milk inspectors, 126

Ovens, blood serum, 30  
   Drying, 30  
   Hot-air, 15-17, 20, 29, 9  
   Paraffine, 24-28  
   Water-bath, 29, 30

### P Q

Pans, agate-ware, 32  
   Platinum, 128  
 Paper, fat-extracted, 125  
   Filtering, 81  
   Lens, 126  
 Paraffine baths, 24-28  
   Knife, 68  
 Parallel compressor, 56  
 Pasteur's bulb pipette, 104  
   Dishes, 89  
   Flasks, 94  
   Tubes, 108  
 Pawlowski's culture tubes, 108  
 Pencils, camels hair, 64  
   Wax, 121  
 Peptonum siccum, 127  
 Percentage tubes, centrifuge, 52  
 Percolators, agate-ware, 32  
   Glass, 103  
 Perforated porcelain plates, 131  
 Petri dish holder, 122  
   Dishes, 89  
 Physician's Berkefeld filter, 80  
   Hæmoglobin outfit, 43  
   Incubator, 15, 9  
   Hot-air sterilizer, 17, 9  
   Laboratory, apparatus for, 150  
   Steam sterilizer, 18, 9  
 Pinch-cocks, burette, 55, 114  
 Pioscope, Herren's, 125  
 Pipette bottles, 86  
   Sterilizing box, 127  
   Support, 142  
 Pipettes, plain, 103, 104  
   Graduated, 116  
   Hæmacytometer, 41, 42  
 Plates, culture, 99  
   Petri, 89  
   Porcelain, 131  
   Staining, 131  
 Platinum needles, 126  
   Ware, 128, 129  
 Pliers, flat nose, 129  
   Wire-cutting, 129  
 Pneumatic troughs, 132, 144  
 Porcelain-ware, 129-132  
 Potato brushes, 45  
   Culture tubes, 108  
   Cutter, Ravenel's, 62  
   Knife, 122  
 Pravez's syringes, 144  
 Preparation dishes, 90  
   Jars, 101  
   Vials, 110  
 Preservation jars, 101  
   Vials, 110  
 Presses, cork, 57  
   Meat, 132  
 Pressure regulators, gas, 133  
 Tubing, 137

## Index

### P Q (Continued)

Primus burner, 48  
 Probang's (brushes), 45  
 Prosecuting knives, 70  
 Pumps, filter, 82  
     Glass, 82  
 Quevenne's lactometer, 116 (124)  
     Milk hydrometer, 116 (124)

### R

Rabbit holders, 34, 35  
 Racks, filter, 142  
     Test tube, 142  
 Radial burner, 47  
 Rafter's counting apparatus, 61  
 Ralston still, 139  
 Rat holders, 34, 35  
     Tongs, 144  
 Ravenel's potato cutter, 62  
 Razors, Robb's aseptic, 132  
     Section, 69  
 Reagent case, 49  
     Cylinder, 88  
     Stock bottle, 87  
 Recklinghausen's moist chamber, 103  
 Rectangular cover glass, 59  
 Red sable brushes, 45  
 Reeves' water bath, 29  
 Reference books, 153, 154  
 Refuse jars, 140  
 Regnault's specific gravity bottles, 112  
 Regulators, gas-pressure, 133  
     Thermo, 133-135  
 Reichel's (*i. e.*, Muencke's) flask, 91  
 Reichert's thermo-regulators, 134  
 Reinhardt's dessicator, 88  
 Retort stands, 141  
 Ribbed funnels, 90  
 Ring burner, 48  
 Rings for supports, 142  
 Robb's razor, 132  
 Robiquet's percolator, 103  
 Rochester stills, 139  
 Rod, glass, 99  
 Roux's thermo-regulator, 135  
 Rubber bands, for Novy's jars, 34  
     Cells, 49  
     Goods, 136, 137

### S

Sable brushes, 45  
 Sacchrometer, Einhorn's, 119  
     Zeiss, 138  
 Safety burners, 48  
     Tubes, 97, 98  
 Salt-mouth bottles, 84, 85  
 Sartorius' balance, 37  
 Saw, bone, 72  
 Scales, balance, 36-39  
 Scalpels, 68, 69  
 Scheibler's clamp, 55  
     Dessicators, 88  
 Schellbach's burettes, 113  
 Schleicher & Schuell's filter papers, 81  
     Fat-extracted paper, 125

Schultz's dehydrating apparatus, 63  
     Reagent cylinder, 88  
 Scissors, dissecting, 72, 73  
 Sealing wax, 145  
 Section lifters, 73, 74  
     Razors, 69  
 Sedgwick-Tucker ærobioscope, 32  
 Sedimentation attachment, centrifuge, 52  
     Glasses, urine, 121  
     Tubes, centrifuge, 53  
 Seeker, anatomical, 74  
 Separator, Treskow's (filling attachment), 107  
 Separatory funnels, 96  
 Serrafines, 64  
 Serum oven, 30  
 Sets, dissecting, 75-78  
 Sharpener, cork-borer, 58  
 Shears, 74  
 Shield tubes, centrifuge, 53  
 Sieve dishes, Steinach's, 104  
 Simple microscopes, 122, 123 (also Cat. A)  
     Water bath, 28  
 Siphons, 106  
 Sixe's thermometer, 118  
 Slide boxes, see Catalogue A  
     Labels, 122  
 Slides, concave-centered, 62  
     Culture, 62  
 Slips, glass, 58, 60  
 Smith's fermentation tubes, 119  
 Soil borer, 138  
 Solidifying apparatus, 30  
 Soxhlet's thermo-regulator, 135  
 Spatulas, horn, 75  
     Porcelain, 132  
     Steel, 75  
 Specific gravity balances, 38, 39  
     Gravity bottles, 111, 112  
 Specimen jars, 101, 102  
 Spirit lamps, 46  
     Levels, 138  
     Stills, 139, 140  
 Spoon, deflagration, 62  
 Spring compressors, 60  
 Sputum centrifuge, 51  
     Tubes, centrifuge, 53  
 Square cover glass, 59  
 Squibb's urea apparatus, 120  
     Urinometer, 121  
 Staining case, 49  
     Dishes, porcelain, 130  
     Forceps, 66, 67  
     Glassware, 104, 105  
     Plates, 131  
 Stains, see catalogue G  
 Stands, apparatus, 141, 142  
 Steam sterilizers, 18-23, 9  
 Steel spatulus, 75  
 Steinach's staining dish, 104  
 Stender dishes, 90  
 Sterilizer baskets, 40  
 Sterilizers, Arnold, 19-21, 9  
     Board-of-Health, 21  
     Hot-air, 15-17, 20, 9  
     Instrument, 20  
     Pressure, 23, 9  
     Steam, 18-23, 9  
 Sternberg's culture flasks, 94

BAUSCH & LOMB OPTICAL CO., ROCHESTER, N. Y.

## Index

### S (Continued)

Stewart's cover-glass forceps, 67  
 Stills, 139, 140  
 Stirrers, glass, 99  
 Stock bottles, reagent, 87  
 Stone jar, 140  
 Stones, oil, 69  
 Stop-cocks, brass, 140  
   Glass, 105  
 Stoppers, cork, 57  
   Rubber, 137  
 Straus-Wurtz's aerobioscope, 33  
 Stubb's pliers, 129  
 Substances, imbedding, see Catalogue G  
 Support rings, 142  
 Supports, 141, 142  
 Swimming cups, 132  
 Syphons, 106  
 Syracuse watch-glasses, 110  
 Syringe needles, 143, 144  
 Syringes, 143, 144

### T

T tubes, 107  
 Table for blood-work, 44  
 Tape measures, 123  
 Teasing needles, 70, 71  
 Tenacula, 75  
 Testers, Babcock's, 125  
 Test-tube baskets, 40  
   Brushes, 45  
   Caps, 136  
   Clamps, 56 (122)  
   Racks, 142  
 Test tubes, 106, 107  
 Text-books, 153, 154  
 Thermo-regulators, 133-135  
 Thermostats, 133-135  
 Thistle-top tubes, 97, 98  
 Thoma's counting chamber, 42  
   Hæmacytometer, 41  
   Pipettes, 41  
 Thomas' dehydrating apparatus, 63  
 Three-way glass tubes, 107, 108  
 Time regulator, 135  
 Tin foil, 144  
 Tincture press, 132  
 Tissue, rubber, 137  
 Tongs, mouse, 144  
   Rat, 144  
 Torsion balance, 36  
 Trays, agate-ware, 32  
   Glass, 107  
 Triangles, iron, 144  
   Platinum, 129  
 Triple chains and hooks, 67  
 Tripod magnifiers, 123  
 Tröemner's balance, 37  
 Troughs, pneumatic, 144  
   Porcelain, 132  
 Tubes, centrifuge, 52, 53  
   Connecting, 107, 108  
   Culture, 108  
   Fermentation, 119  
   Filter, 92, 109, 130  
   Funnel, 97, 98  
   Porcelain filter, 130

Tubes, potato, 108  
   Safety, 97, 98  
   Smith's fermentation, 119  
   Test, 106, 107  
 Tubing clamps, 55  
   Cloth-covered, 137  
   Glass, 99  
   Pressure, 137  
   Rubber, 137  
 Tucker's apparatus, 32  
 Tumblers, 109

### U V

U tubes, 108  
 Universal apparatus supports, 141  
   Clamp holders, 54  
 Urea apparatus, 120, 121  
 Urinary centrifuge, 50, 51  
   Glassware, 119-121  
 Urine analysis, see special booklet  
 Urinometer, Squibb's, 121  
 U. S. beef extract, 127  
   Gelatine, 127  
   Peptonum siccum, 127  
 Vaporized oil-burner, 48  
 Vaughan's animal cage, 34  
 Vials, 109, 110  
 Victor-Meyer's funnels, 96  
 Voges' Guinea-pig holders, 35  
 Volumetric flasks, 115  
   Pipettes, 116

### W Y Z

Warming table, 44  
 Washing bottles, 87  
   Flasks, gas, 98  
 Watch-glasses, 110  
   Clamps, 56  
 Water analysis, apparatus for, 51, 61, 145  
   Bath drying-ovens, 29, 30  
   Baths, 24-30  
   Heaters, 48  
   Sampling apparatus, 145  
   Stills, 139, 140  
 Wax pencils, 121  
   Bees, 145  
   Sealing, 145  
 Weighing bottles, 87  
 Weights, balance, 39, 40  
 Westphal's specific gravity balance, 39  
 Wire baskets:  
   Brass, 145  
   Copper, 145  
   Cutting pliers, 129  
   Funnel rack, 82  
   Gauze, 82  
   Platinum, 129  
 Witte's peptonum siccum, 127  
 Wool, cotton, 58  
   Filtering, glass, 80  
 Wolffhuegal's counting apparatus, 61  
 Woulff bottles, 87  
 Y tubes, 108  
 Yeast-cell counting chamber, 42  
 Zeiss counting chamber, 42  
   Hæmacytometers, 41  
   Saccharometer, 138  
 Zero burette, automatic, 112







**LANE MEDICAL LIBRARY**

**This book should be returned on or before  
the date last stamped below.**

--	--	--

G71 Bausch & Lomb optical co  
B35 Bacteriological  
1900 apparatus.

[illegible]

